



CS 1101 Final Exam Leakage

Programming Fundamentals (University of the People)



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A variable that has a data type of "str" cannot be part of a compound data type

Select one:

☒ True

☐ False

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None

☐ e. an exception

Feedback

Your answer is correct.

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The elements of a list are immutable.

Select one:

☐ True

☒ False

Question 4

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:



True



False

Question 5

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Assume that `d` is a Python dictionary. What does the following Python code produce?

`d.items()`

Select one:



a. a histogram



b. an inverted dictionary



c. a list of tuples



d. a lookup



e. a reverse lookup

Feedback

Your answer is incorrect.

Question 6

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Boolean expressions control _____

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
total = 0
for sublist in mylist:
    total += sum(sublist)
print(total)
```

Select one:

- ☐ a. 14
- ☒ b. 23

- ☐ c. 0
- ☐ d. 13

Feedback

Your answer is correct.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
index = "Ability is a poor man's wealth".find("W")  
print(index)
```

Select one:

- ☐ a. 24
- ☐ b. 0
- ☐ c. 23
- ☒ d. -1

Feedback

Your answer is correct.

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]  
a=0  
b=0  
total = 0  
while a <= 2:  
    while b < 2:  
        total += mylist[a][b]  
        b += 1  
    a += 1  
    b = 0  
print (total)
```

Select one:

☒ a. 14

☐ b. 23

☐ c. 0

☐ d. 13

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The Python line below causes “5 dollars” to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

☒ True

☐ False

Question 11

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is fin?

Select one:

☐ a. A file object

☐ b. A list of characters

☐ c. A list of words

- ☐ d. A string that may have a newline
- ☒ e. A string with no newline

Feedback

Your answer is incorrect.

Question 12

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in inverse:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☒ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is incorrect.

Question 13

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

: To create a new object that has the same value as an existing object is know as creating an alias.

Select one:



True



False

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **values**?

Select one:



a. dictionary



b. list



c. list of dictionaries



d. tuple



e. all of the above

Feedback

Your answer is correct.

Question 15

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

for k in d:

```
    if d[k] == v:  
        return k
```

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is incorrect.

Question 16

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☐ a. [1, 4, 2, 3, 5]
- ☒ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

Question 17

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x=1
y=2
```

```
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:

- ☒ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1

Question 18

Correct
Mark 1.00 out of 1.00

[Flag question](#)

Question text

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

Question 19

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions has the value 10?

Select one:



a. 8^2



b. $8 ** 2$



c. $8 + - 2$



d. $8 += 2$



e. $8 - + 2$

Feedback

Your answer is incorrect.

Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions has the value 64?

Select one:



a. 8^2



b. $8 ** 2$



c. $8 + - 2$



d. $8 += 2$



e. $8 - + 2$

Feedback

Your answer is correct.

Question 21

Not answered

Marked out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is line?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Feedback

Your answer is incorrect.

Question 22

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

- ☐ True
- ☒ False

Question 23

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Handling an exception with a try statement is called **throwing** an exception.

Select one:



True



False

Question 24

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

In Python, a list of characters is the same as a string.

Select one:



True



False

Question 25

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:

- ☒ a. Lines in a file
- ☐ b. Lines in a list
- ☐ c. Words in a dictionary
- ☐ d. Words in a list
- ☐ e. Words in a string

Feedback

Your answer is correct.

Question 26

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☒ d. tuple
- ☐ e. All of the above

Feedback

Your answer is correct.

Question 27

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

For the Python program below, will there be any output, and will the program terminate?

```
while True:
    while 1 > 0:
        break
    print("Got it!")
    break
```

Select one:

- ☒ a. Yes and no
- ☐ b. No and no
- ☐ c. Yes and yes
- ☐ d. No and yes
- ☐ e. Run-time error

Feedback

Your answer is incorrect.

Question 28

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

String objects are modified with string slices.

Select one:

☒ True

☐ False

Question 29

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What will the output of this python program be?

```
def test_function( length, width, height):  
    print ("the area of the box is ",length*width*height)  
    return length*width*height
```

```
l = 12.5  
w = 5  
h = 2  
test_function(l, w, h)
```

Select one:

- ☒ a. The area of the box is 125
- ☐ b. The area of the box is 125.0
- ☐ c. The area of the box is 120
- ☐ d. 125.0

Question 30

Incorrect
Mark 0.00 out of 1.00

[Flag question](#)

Question text

What is the output of the following statements?

```
pi = int(3.14159)  
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159
- ☐ d. 0

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(0.123)`

Select one:

- ☒ a. `<class 'float'>`
- ☐ b. `<class 'bool'>`
- ☐ c. `SyntaxError: invalid syntax`
- ☐ d. `<class 'int'>`
- ☐ e. `<class 'str'>`

Feedback

Your answer is correct.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What does function subroutine do?

```
def subroutine( n ):
    while n > 0:
        print (n,)
        n -= 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

Question 3

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)
```

```
recurse(1)
```

Select one:

- ☒ a. 0
- ☐ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Feedback

Your answer is incorrect.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
n = 10000  
count = 0  
while n:  
    count = count + 1  
    n = n // 10
```

```
print (count)
```

Select one:



a. 5



b. 0



c. 10000



d. 1000

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
def area(l, w):  
    temp = l * w;  
    return temp
```

```
l = 4.0  
w = 3.25  
x = area(l, w)  
if ( x ):  
    print (x)
```

Select one:



a. 13.0



b. 0



c. Expression does not evaluate to boolean true



d. 13

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(123)`

Select one:

- ☐ a. <class 'float'>
- ☐ b. <class 'bool'>
- ☐ c. SyntaxError: invalid syntax
- ☒ d. <class 'int'>

- ☐ e. <class 'str'>

Feedback

Your answer is correct.

Question 7

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]  
print(" ".join(mylist[1::2]))
```

Select one:

- ☒ a. now is the time
- ☐ b. now is the time for
- ☐ c. four score and seven years
- ☐ d. now four is score the and seven time years for

Feedback

Your answer is incorrect.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition.

An error in a program.

Answer 1

bug

The process of finding and removing any of the three kinds of programming errors.

Answer 2

debugging

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Answer 3

formal language

A programming language like Python that is designed to be easy for humans to read and write.

Answer 4

high-level language

A program that reads another program and executes it.

Answer 5

interpreter

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

Answer 6

low -level language

Any one of the languages that people speak that evolved naturally.

Answer 7

natural language

To examine a program and analyse the syntactic structure.

Answer 8

parse

A property of a program that can run on more than one kind of computer.

Answer 9

portability

An instruction that causes the Python interpreter to display a value on the screen.

Answer 10

print statement

The process of formulating a problem, finding a solution, and expressing the solution.

Answer 11

problem solving

a sequence of instructions that specifies to a computer actions and computations to be performed.

Answer 12

program

A program stored in a file (usually one that will be interpreted).

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

The structure of a program.

program

Answer 13

script

Answer 14

token

Answer 15

syntax

Question 9

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:



a. 5



b. 5 1



c. 2



d. 5 0

Question 10

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list)
```

Select one:

- ☐ a. 0
- ☒ b. {3, 2, 1}
- ☐ c. None
- ☐ d. syntax error
- ☐ e. [3, 2, 1]

Feedback

Your answer is incorrect.

Question 11

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is word?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☒ c. A list of words

- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Feedback

Your answer is incorrect.

Question 12

Not answered
Marked out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 7:
    print (mylist[a],)
    a += 2
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☐ c. for score and seven years
- ☐ d. now four is score the and seven time years for

Question 13

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☐ a. 5 5 5.000000



b. 5 5 5



c. 5 5.000000



d. 0 5 5.0

Question 14

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in result:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:



a. a histogram



b. an inverted dictionary



c. a list of tuples



d. a lookup



e. a reverse lookup

Feedback

Your answer is incorrect.

Question 15

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A loop where the terminating condition is never achieved is called an _____

Select one:

- ☒ a. infinite loop
- ☐ b. universal loop
- ☐ c. while loop
- ☐ d. for .. ever loop

Question 16

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☒ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Question 17

Correct
Mark 1.00 out of 1.00

Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True



False

Question 18

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than what the programmer intended.

The meaning of a program.

The structure of a program.

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 1

formal language

Answer 2

natural language

Answer 3

runtime error

Answer 4

semantic error

Answer 5

semantics

Answer 6

syntax

Answer 7

syntax error

Answer 8

token

Question 19

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

If you use a Python dictionary in a for statement, it traverses the _____ of the dictionary.

Select one:

- ☐ a. values and keys
- ☐ b. indices
- ☒ c. keys and values
- ☐ d. values
- ☐ e. keys

Feedback

Your answer is incorrect.

Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Question text

: The following code:

```
for fruit in ["banana", "apple", "quince"]:  
    print (fruit)
```

will produce the following output:

```
banana  
apple  
quince
```

Select one:

- ☒ True
- ☐ False

Question 21

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the value of the following Python expression?

`not(True and False)`

Select one:



True



False

Question 22

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:



True



False

Question 23

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

- ☐ a. 0
- ☐ b. {1, 2, 3}
- ☐ c. None
- ☐ d. syntax error
- ☒ e. [1, 2, 3]

Feedback

Your answer is incorrect.

Question 24

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python script produce?

```
def function2(param):
    print (param, param)
```

```
def function1(part1, part2):
    cat = part1 + part2
    function2(cat)
```

```
chant1 = "See Me "
chant2 = "See You "
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☒ b. See Me See You See Me See You
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

Question 25

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
try:
    fin = open('answer.txt')
    fin.write('Yes')
except:
    print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☒ c. Maybe

- ☐ d. Yes
Maybe
- ☐ e. No
Maybe

Feedback

Your answer is incorrect.

Question 26

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

- ☐ a. structured development
- ☒ b. incremental development
- ☐ c. unit testing

- ☐ d. Systems development life cycle

Question 27

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the Python *method call* below?

"bib".find('b', 1, 2)

Select one:

- ☒ a. 0
- ☐ b. 2
- ☐ c. -1
- ☐ d. syntax error
- ☐ e. 3

Feedback

Your answer is incorrect.

Question 28

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions generates a syntax error?

Select one:

- ☒ a. 8 ^ 2
- ☐ b. 8 ** 2
- ☐ c. 8 +- 2
- ☐ d. 8 += 2
- ☐ e. 8 -+ 2

Feedback

Your answer is incorrect.

Question 29

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")  
print(index)
```

Select one:

- ☐ a. 24
- ☐ b. 0
- ☒ c. 23
- ☐ d. -1

Question 30

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
n = 10  
while n != 1:  
    print (n,end=' ')  
    if n % 2 == 0:      # n is even  
        n = n // 2  
    else:               # n is odd  
        n = n * 3 + 1
```

Select one:

- ☐ a. 10 5 16 8 4 2
- ☒ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

Which one of the following Python expressions has the value 10?

Select one:

- ☐ a. 8^2
- ☐ b. $8^{**}2$
- ☒ c. $8+-2$
- ☐ d. $8+=2$
- ☐ e. $8-+2$

Feedback

Your answer is incorrect.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
def area(l, w):  
    temp = l * w;  
    return temp
```

```
l = 4.0  
w = 3.25  
x = area(l, w)
```

```
if ( x ):
    print (x)
```

Select one:



a. 13.0



b. 0



c. Expression does not evaluate to boolean true



d. 13

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is word?

Select one:



a. A file object



b. A list of characters



c. A list of words



d. A string that may have a newline



e. A string with no newline

Feedback

Your answer is correct.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
print(" ".join(mylist[1::2]))
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☒ c. four score and seven years
- ☐ d. now four is score the and seven time years for

Feedback

Your answer is correct.

Question 6

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

: The following code:

```
for fruit in ["banana", "apple", "quince"]:  
    print (fruit)
```

will produce the following output:

```
banana  
apple  
quince
```

Select one:



True



False

Question 7

Correct
Mark 1.00 out of 1.00

Flag question

Question text

In Python, a list of characters is the same as a string.

Select one:



True



False

Question 8

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:



a. Lines in a file



b. Lines in a list



c. Words in a dictionary



d. Words in a list



e. Words in a string

Feedback

Your answer is correct.

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(0.123)`

Select one:



a. `<class 'float'>`



b. `<class 'bool'>`



c. `SyntaxError: invalid syntax`



d. `<class 'int'>`



e. `<class 'str'>`

Feedback

Your answer is correct.

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in inverse:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is correct.

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

String objects are modified with string slices.

Select one:

- ☒ True



False

Question 12

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print(x)
else:
    print(x, x%2)
```

Select one:



a. 5



b. 5 1



c. 2



d. 5 0

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:



True



False

Question 14

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]  
print(my_list.sort())
```

Select one:

- ☒ a. 0
- ☐ b. {1, 2, 3}
- ☐ c. None
- ☐ d. syntax error
- ☐ e. [1, 2, 3]

Feedback

Your answer is correct.

Question 15

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
index = "Ability is a poor man's wealth".find("W")  
print(index)
```

Select one:

- ☒ a. 24
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

Feedback

Your answer is incorrect.

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
n = 10
while n != 1:
    print (n,end=' ')
    if n % 2 == 0:      # n is even
        n = n // 2
    else:               # n is odd
        n = n * 3 + 1
```

Select one:

- ☒ a. 10 5 16 8 4 2
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

Question 17

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 7:
    print (mylist[a],)
    a += 2
```

Select one:

- ☒ a. now is the time
- ☐ b. now is the time for
- ☐ c. for score and seven years
- ☐ d. now four is score the and seven time years for

Question 18

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **values**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☐ d. tuple
- ☒ e. all of the above

Feedback

Your answer is correct.

Question 19

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3

- ☐ b. 3.0
- ☒ c. 3.14159

- ☐ d. 0

Question 20

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is fin?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☒ d. A string that may have a newline
- ☐ e. A string with no newline

Feedback

Your answer is incorrect.

Question 21

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

Question 22

Not answered
Marked out of 1.00

Flag question

Question text

The Python line below causes “5 dollars” to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

- ☒ True
- ☐ False

Question 23

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python *method call* below?

```
"bib".find('b', 1, 2)
```

Select one:

- ☐ a. 0
- ☐ b. 2
- ☒ c. -1

- ☐ d. syntax error
- ☐ e. 3

Feedback

Your answer is correct.

Question 24

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Boolean expressions control _____

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above

Question 25

Correct

Mark 1.00 out of 1.00

Flag question

Question text

For the Python program below, will there be any output, and will the program terminate?

while True:

```
    while 1 > 0:
        break
    print("Got it!")
    break
```

Select one:

- ☐ a. Yes and no
- ☐ b. No and no

☒ c. Yes and yes

☐ d. No and yes

☐ e. Run-time error

Feedback

Your answer is correct.

Question 26

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

☐ a. structured development

☒ b. incremental development

☐ c. unit testing

☐ d. Systems development life cycle

Question 27

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The elements of a list are immutable.

Select one:

☐ True

☒ False

Question 28

Not answered
Marked out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list)
```

Select one:

- ☐ a. 0
- ☐ b. {3, 2, 1}
- ☐ c. None
- ☐ d. syntax error
- ☐ e. [3, 2, 1]

Feedback

Your answer is incorrect.

Question 29

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than

Answer 1

formal language

Answer 2

natural language

Answer 3

runtime error

Answer 4

semantic error

what the programmer intended.

semantic error

The meaning of a program.

Answer 5

semantics

The structure of a program.

Answer 6

syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

Answer 7

syntax error

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 8

token

Question 30

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")  
print(index)
```

Select one:



a. 24



b. 0



c. 23



d. -1

Question 1

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

d.items()

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is incorrect.

Question 2

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159

☐ d. 0

Question 3

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]  
a=0  
b=0  
total = 0  
while a <= 2:  
    while b < 2:  
        total += mylist[a][b]  
        b += 1  
    a += 1  
    b = 0  
print (total)
```

Select one:

☒ a. 14

☐ b. 23

☐ c. 0

☐ d. 13

Question 4

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What will the output of this python program be?

```
def test_function( length, width, height):  
    print ("the area of the box is ",length*width*height)  
    return length*width*height
```

```
l = 12.5  
w = 5  
h = 2  
test_function(l, w, h)
```

Select one:

- ☐ a. The area of the box is 125
- ☒ b. The area of the box is 125.0
- ☐ c. The area of the box is 120
- ☐ d. 125.0

Question 5

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☒ d. tuple
- ☐ e. All of the above

Feedback

Your answer is correct.

Question 6

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What does function subroutine do?

```
def subroutine( n ):
    while n > 0:
        print (n,)
        n -= 1
```

Select one:

- ☒ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

☒ True

☐ False

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions has the value 64?

Select one:

☐ a. $8 \wedge 2$

☒ b. $8 ** 2$

☐ c. $8 +- 2$

☐ d. $8 += 2$

☐ e. $8 -+ 2$

Feedback

Your answer is correct.

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A loop where the terminating condition is never achieved is called an _____

Select one:

☒ a. infinite loop

☐ b. universal loop

☐ c. while loop

☐ d. for .. ever loop

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition.

An error in a program.

Answer 1

bug

The process of finding and removing any of the three kinds of programming errors.

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

A programming language like Python that is designed to be easy for humans to read and write.

A program that reads another program and executes it.

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

Any one of the languages that people speak that evolved naturally.

To examine a program and analyse the syntactic structure.

A property of a program that can run on more than one kind of computer.

An instruction that causes the Python interpreter to display a value on the screen.

The process of formulating a problem, finding a solution, and expressing the solution.

a sequence of instructions that specifies to a computer actions and computations to be performed.

A program stored in a file (usually one that will be

bug

Answer 2

debugging

Answer 3

formal language

Answer 4

high-level language

Answer 5

interpreter

Answer 6

low-level language

Answer 7

natural language

Answer 8

parse

Answer 9

portability

Answer 10

print statement

Answer 11

problem solving

Answer 12

program

Answer 13

script

interpreted).

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

The structure of a program.

script

Answer 14

token

Answer 15

syntax

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)
```

recurse(1)

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☒ d. RuntimeError: maximum recursion depth exceeded

Feedback

Your answer is correct.

Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n // 10

print (count)
```

Select one:

☒ a. 5

☐ b. 0

☐ c. 10000

☐ d. 1000

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:

☐ a. 1 and 2 are equal

☒ b. 1 is less than 2

☐ c. 1 is greater than 2

☐ d. 2 is greater than 1

Question 14

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
try:
    fin = open('answer.txt')
    fin.write('Yes')
except:
    print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☐ c. Maybe
- ☒ d. Yes
Maybe
- ☐ e. No
Maybe

Feedback

Your answer is incorrect.

Question 15

Correct
Mark 1.00 out of 1.00

Flag question

Question text

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

- ☒ True

☐ False

Question 16

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:  
    if d[k] == v:  
        return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☒ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is incorrect.

Question 17

Correct

Mark 1.00 out of 1.00

Flag question

Question text

: To create a new object that has the same value as an existing object is know as creating an alias.

Select one:

- ☐ True
- ☒ False

Question 18

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]  
total = 0  
for sublist in mylist:  
    total += sum(sublist)  
print(total)
```

Select one:

- ☐ a. 14
- ☒ b. 23
- ☐ c. 0
- ☐ d. 13

Feedback

Your answer is correct.

Question 19

Incorrect
Mark 0.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')  
for line in fin:  
    word = line.strip()  
    print(word)
```

What is line?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters

- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☒ e. A string with no newline

Feedback

Your answer is incorrect.

Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. $8 ^ 2$
- ☐ b. $8 ** 2$
- ☐ c. $8 +- 2$
- ☒ d. $8 += 2$
- ☐ e. $8 -+ 2$

Feedback

Your answer is correct.

Question 21

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:



True



False

Question 22

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python script produce?

```
def function2(param):  
    print (param, param)
```

```
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)
```

```
chant1 = "See Me "  
chant2 = "See You "  
function1(chant1, chant2)
```

Select one:



a. See You See Me



b. See Me See You See Me See You



c. See Me See Me See You See You



d. None it would generate an error

Question 23

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the value of the following Python expression?

```
not(True and False)
```

Select one:



True



False

Question 24

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(123)`

Select one:



a. `<class 'float'>`



b. `<class 'bool'>`



c. `SyntaxError: invalid syntax`



d. `<class 'int'>`



e. `<class 'str'>`

Feedback

Your answer is correct.

Question 25

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you assign the result a void function to a variable in Python, you get:

Select one:



a. an empty string



b. the value -1



c. the value 0



d. the special value None



e. an exception

Feedback

Your answer is correct.

Question 26

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you use a Python dictionary in a for statement, it traverses the _____ of the dictionary.

Select one:



a. values and keys



b. indices



c. keys and values



d. values



e. keys

Feedback

Your answer is correct.

Question 27

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in result:
```



```
    result[val] = [key]
else:
    result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is correct.

Question 28

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Handling an exception with a try statement is called **throwing** an exception.

Select one:

- ☐ True
- ☒ False

Question 29

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A variable that has a data type of "str" cannot be part of a compound data type

Select one:

- ☐ True



False

Question 30

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:



a. [1, 4, 2, 3, 5]



b. [5, 1, 4, 2, 3]



c. [null]



d. [1, 4, 2, 3]

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:



True



False

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions generates a syntax error?

Select one:



a. 8^2



b. $8^{**}2$



c. $8+-2$



d. $8+=2$



e. $8-+2$

Feedback

Your answer is correct.

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is word?

Select one:



a. A file object

- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☒ e. A string with no newline

Feedback

Your answer is correct.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in inverse:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is correct.

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

String objects are modified with string slices.

Select one:



True



False

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions has the value 64?

Select one:



a. 8^2



b. $8^{**}2$



c. $8+-2$



d. $8+=2$



e. $8-+2$

Feedback

Your answer is correct.

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

: To create a new object that has the same value as an existing object is know as creating an alias.

Select one:

- ☐ True
- ☒ False

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What will the output of this python program be?

```
def test_function( length, width, height):  
    print ("the area of the box is ",length*width*height)  
    return length*width*height
```

```
l = 12.5  
w = 5  
h = 2  
test_function(l, w, h)
```

Select one:

- ☐ a. The area of the box is 125
- ☒ b. The area of the box is 125.0
- ☐ c. The area of the box is 120
- ☐ d. 125.0

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you use a Python dictionary in a for statement, it traverses the _____ of the dictionary.

Select one:

- ☐ a. values and keys
- ☐ b. indices
- ☐ c. keys and values
- ☐ d. values
- ☒ e. keys

Feedback

Your answer is correct.

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **values**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☐ d. tuple
- ☒ e. all of the above

Feedback

Your answer is correct.

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(123)`

Select one:

- ☐ a. <class 'float'>
- ☐ b. <class 'bool'>
- ☐ c. SyntaxError: invalid syntax
- ☒ d. <class 'int'>

- ☐ e. <class 'str'>

Feedback

Your answer is correct.

Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in result:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☒ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is correct.

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The elements of a list are immutable.

Select one:



True



False

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is fin?

Select one:



a. A file object



b. A list of characters



c. A list of words



d. A string that may have a newline



e. A string with no newline

Feedback

Your answer is correct.

Question 15

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A variable that has a data type of "str" cannot be part of a compound data type

Select one:



True



False

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than what the programmer intended.

The meaning of a program.

The structure of a program.

Answer 1

formal language

Answer 2

natural language

Answer 3

runtime error

Answer 4

semantic error

Answer 5

semantics

Answer 6

syntax

syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

Answer 7

syntax error

Answer 8

token

Question 17

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that `d` is a Python dictionary. What does the following Python code produce?
`d.items()`

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☒ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is correct.

Question 18

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What will the contents of `mylist` be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☒ a. [1, 4, 2, 3, 5]
- ☐ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

Question 19

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
def area(l, w):
    temp = l * w;
    return temp
```

```
l = 4.0
w = 3.25
x = area(l, w)
if ( x ):
    print (x)
```

Select one:

- ☒ a. 13.0
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

Question 20

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☒ d. RuntimeError: maximum recursion depth exceeded

Feedback

Your answer is correct.

Question 21

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python *method call* below?

```
"bib".find('b', 1, 2)
```

Select one:

- ☐ a. 0
- ☐ b. 2
- ☒ c. -1
- ☐ d. syntax error
- ☐ e. 3

Feedback

Your answer is correct.

Question 22

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which one of the following Python expressions has the value 10?

Select one:



a. $8 \wedge 2$



b. $8 ** 2$



c. $8 +- 2$



d. $8 += 2$



e. $8 -+ 2$

Feedback

Your answer is correct.

Question 23

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
total = 0
for sublist in mylist:
    total += sum(sublist)
print(total)
```

Select one:



a. 14



b. 23



c. 0



d. 13

Feedback

Your answer is correct.

Question 24

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:



True



False

Question 25

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 7:
    print (mylist[a],)
    a += 2
```

Select one:



a. now is the time



b. now is the time for



c. for score and seven years



d. now four is score the and seven time years for

Question 26

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A loop where the terminating condition is never achieved is called an _____

Select one:

- ☒ a. infinite loop
- ☐ b. universal loop
- ☐ c. while loop
- ☐ d. for .. ever loop

Question 27

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Boolean expressions control _____

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above

Question 28

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In Python, a list of characters is the same as a string.

Select one:

- ☒ True
- ☐ False

Question 29

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

☒ True

☐ False

Question 30

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
index = "Ability is a poor man's wealth".find("W")
print(index)
```

Select one:

- ☒ a. 24
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

Feedback

Your answer is correct.

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:



a. Lines in a file



b. Lines in a list



c. Words in a dictionary



d. Words in a list



e. Words in a string

Feedback

Your answer is correct.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☒ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the value of the following Python expression?

`not(True and False)`

Select one:

☒ True

☐ False

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is Python's response to the command: `type(0.123)`

Select one:

- ☒ a. `<class 'float'>`
- ☐ b. `<class 'bool'>`
- ☐ c. `SyntaxError: invalid syntax`
- ☐ d. `<class 'int'>`
- ☐ e. `<class 'str'>`

Feedback

Your answer is correct.

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is line?

Select one:

- ☒ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Feedback

Your answer is correct.

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A development approach that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

- ☒ a. structured development
- ☒ b. incremental development
- ☐ c. unit testing
- ☐ d. Systems development life cycle

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☒ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n // 10
```

print (count)

Select one:



a. 5



b. 0



c. 10000



d. 1000

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")
print(index)
```

Select one:



a. 24



b. 0



c. 23

☒ d. -1

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The Python expression 'Unit 6'[-1] has value '6'.

Select one:



True



False

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list)
```

Select one:



a. 0



b. {3, 2, 1}



c. None



d. syntax error



e. [3, 2, 1]

Feedback

Your answer is correct.

Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The Python line below causes “5 dollars” to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:



True



False

Question 13

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
a=0
b=0
total = 0
while a <= 2:
    while b < 2:
        total += mylist[a][b]
        b += 1
    a += 1
    b = 0
print (total)
```

Select one:



a. 14



b. 23



c. 0



d. 13

Question 14

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159
- ☐ d. 0

Question 15

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

- ☐ a. 0
- ☐ b. {1, 2, 3}
- ☒ c. None
- ☐ d. syntax error
- ☐ e. [1, 2, 3]

Feedback

Your answer is correct.

Question 16

Correct
Mark 1.00 out of 1.00

Flag question

Question text

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None
- ☐ e. an exception

Feedback

Your answer is correct.

Question 17

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print(x)
else:
    print(x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2

☐ d. 5 0

Question 18

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:  
    if d[k] == v:  
        return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☒ d. a lookup
- ☐ e. a reverse lookup

Feedback

Your answer is incorrect.

Question 19

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Handling an exception with a try statement is called **throwing** an exception.

Select one:

- ☐ True
- ☒ False

Question 20

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

Question 21

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition.

An error in a program.

The process of finding and removing any of the three kinds of programming errors.

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Answer 1

bug

Answer 2

debugging

Answer 3

formal language

A programming language like Python that is designed to be easy for humans to read and write.

Answer 4

high-level language

A program that reads another program and executes it.

Answer 5

interpreter

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

Answer 6

low-level language

Any one of the languages that people speak that evolved naturally.

Answer 7

natural language

To examine a program and analyse the syntactic structure.

Answer 8

parse

A property of a program that can run on more than one kind of computer.

Answer 9

portability

An instruction that causes the Python interpreter to display a value on the screen.

Answer 10

print statement

The process of formulating a problem, finding a solution, and expressing the solution.

Answer 11

problem solving

a sequence of instructions that specifies to a computer actions and computations to be performed.

Answer 12

program

A program stored in a file (usually one that will be interpreted).

Answer 13

script

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 14

token

The structure of a program.

Answer 15

syntax

Question 22

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

Question 23

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python script produce?

```
def function2(param):  
    print (param, param)  
  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
  
chant1 = "See Me "  
chant2 = "See You "  
function1(chant1, chant2)
```

Select one:

- ☒ a. See You See Me



b. See Me See You See Me See You



c. See Me See Me See You See You



d. None it would generate an error

Question 24

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]  
print(" ".join(mylist[1::2]))
```

Select one:



a. now is the time



b. now is the time for



c. four score and seven years



d. now four is score the and seven time years for

Feedback

Your answer is incorrect.

Question 25

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following code produce?

```
n = 10  
while n != 1:  
    print (n,end=' ')  
    if n % 2 == 0:      # n is even  
        n = n // 2
```

```
else:          # n is odd
    n = n * 3 + 1
```

Select one:

- ☒ a. 10 5 16 8 4 2
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

Question 26

Correct
Mark 1.00 out of 1.00

Flag question

Question text

: The following code:

```
for fruit in ["banana", "apple", "quince"]:  
    print (fruit)
```

will produce the following output:

```
banana  
apple  
quince
```

Select one:

☒ True

☐ False

Question 27

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What does function subroutine do?


```
def subroutine( n ):
    while n > 0:
        print (n,)
        n -= 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

Question 28

Correct
Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
try:
    fin = open('answer.txt')
    fin.write('Yes')
except:
    print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☐ c. Maybe
- ☐ d. Yes
Maybe
- ☒ e. No
Maybe

Feedback

Your answer is correct.

Question 29

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☒ d. tuple
- ☐ e. All of the above

Feedback

Your answer is correct.

Question 30

Correct

Mark 1.00 out of 1.00

Flag question

Question text

For the Python program below, will there be any output, and will the program terminate?

while True:

```
    while 1 > 0:
        break
    print("Got it!")
    break
```

Select one:

- ☐ a. Yes and no
- ☐ b. No and no
- ☒ c. Yes and yes
- ☐ d. No and yes



e. Run-time error

Feedback

Your answer is correct.



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Fundamental Programming (University of the People)



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Question **21**

Not yet answered

Marked out of 1.00

In most cases, it is possible to prevent an exception from terminating a program by using the try and except statements.

Select one:

- ☒ True
- ☐ False

Question **22**

Not yet answered

Marked out of 1.00

Assuming variable `i` has been created with value 2, what does the Python code below output?

```
def myf(s, n):  
    global i  
    print(s * i * n)  
  
myf('hi-', 3)
```

Select one:

- ☒ a. hi-hi-hi-hi-hi-
- ☐ b. hi-hi-hi-
- ☐ c. hi-
- ☐ d. hi-hi-
- ☐ e. Syntax error

[Clear my choice](#)



Question **23**

Not yet answered

Marked out of 1.00

Functions like `print` which perform an action but don't return a value are called:

Select one:

- ☐ a. recursive functions
- ☐ b. built-in functions
- ☐ c. simple functions
- ☐ d. utility functions
- ☒ e. void functions

[Clear my choice](#)

Question **24**

Not yet answered

Marked out of 1.00

What is the output of the Python *method call* below?

`"bib".find('b', 1, 2)`

Select one:

- ☐ a. 0
- ☐ b. 2
- ☒ c. -1
- ☐ d. syntax error
- ☐ e. 3

[Clear my choice](#)



Question **25**

Not yet answered

Marked out of 1.00

The Python line below causes "5 dollars" to be printed.

```
print('%s %d' % (5, 'dollars'))
```

Select one:

☒ True☐ FalseQuestion **26**

Not yet answered

Marked out of 1.00

In Python, once a variable has been created, its type cannot be changed in the program.

Select one:

☐ True☒ FalseQuestion **27**

Not yet answered

Marked out of 1.00

What will the contents of mylist be after the following Python code has been executed?

```
>>> mylist = [1, 5, 2, 3]
>>> mylist.append(4)
```

Select one:

☐ a. [1, 4, 2, 3, 5]☒ b. [1, 5, 2, 3, 4]☐ c. [null]☐ d. [1, 5, 2, 3]

[Clear my choice](#)



Question **28**

Not yet answered

Marked out of 1.00

If you use a Python dictionary in a for statement, it traverses the ____ of the dictionary.

Select one:

- ☐ a. values and keys
- ☒ b. keys
- ☐ c. keys and values
- ☐ d. values
- ☐ e. indices

[Clear my choice](#)

Question **29**

Not yet answered

Marked out of 1.00

The elements of a list are mutable.

Select one:

- ☒ True
- ☐ False



Question **30**

Not yet answered

Marked out of 1.00

To examine a program's source code and analyze its syntactic structure is to:

Select one:

- ☐ a. compile the program.
- ☐ b. debug the program.
- ☒ c. parse the program.
- ☐ d. comment the program.
- ☐ e. interpret the program.

[Clear my choice](#)

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Programming Fundamentals (University of the People)



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Question 1

Not yet answered

Marked out of 1.00

The elements of a Python list can be of different data types.

Select one:

- ☒ True
- ☐ False

Question 2

Not yet answered

Marked out of 1.00

An error in a program that makes it do something other than what the programmer intended is called:

Select one:

- ☐ a. a syntax error
- ☒ b. a semantic error
- ☐ c. an exception
- ☐ d. a user error
- ☐ e. a side-effect

[Clear my choice](#)

Question **3**

Not yet answered

Marked out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)  
recurse(0)
```

Select one:

- ☒ a. 0
- ☐ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

[Clear my choice](#)

Question **4**

Not yet answered

Marked out of 1.00

The `invert_dict` Python function is supposed to invert a dictionary. Based on the sample input and the output shown below, the function is correct.

```
invert_dict({1: 10, 2: 10, 3: 20})  
  
{10: [1, 2, 3], 20: [3]}
```

Select one:

- ☐ True
- ☒ False



Question **5**

Not yet answered

Marked out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

d.items()

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☒ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

[Clear my choice](#)

Question **6**

Not yet answered

Marked out of 1.00

What is the output of the following Python 3 program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 8:
    print(mylist[a],)
    a = a + 2
```

Select one:

- ☒ a. now is the time
- ☐ b. now is the time for
- ☐ c. for score and seven years
- ☐ d. now four is score the and seven time years for

[Clear my choice](#)



Question **7**

Not yet answered

Marked out of 1.00

What output will the following Python statement produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

[Clear my choice](#)

Question **8**

Not yet answered

Marked out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:

- ☒ a. Lines in a file
- ☐ b. Lines in a list
- ☐ c. Words in a dictionary
- ☐ d. Words in a list
- ☐ e. Words in a string

[Clear my choice](#)



Question 9

Not yet answered

Marked out of 1.00

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. $8 \wedge 2$
- ☐ b. $8 ** 2$
- ☐ c. $8 +- 2$
- ☒ d. $8 += 2$
- ☐ e. $8 -+ 2$

[Clear my choice](#)

Question 10

Not yet answered

Marked out of 1.00

What output will the following Python script produce?

```
def function2(param):  
    print (param, param)
```

```
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)
```

```
chant1 = "See Me "  
chant2 = "See You "  
function1(chant1, chant2)
```

Select one:

- ☐ a. See Me See You
- ☐ b. See You See Me See You See Me
- ☒ c. See Me See You See Me See You
- ☐ d. None it would generate an error

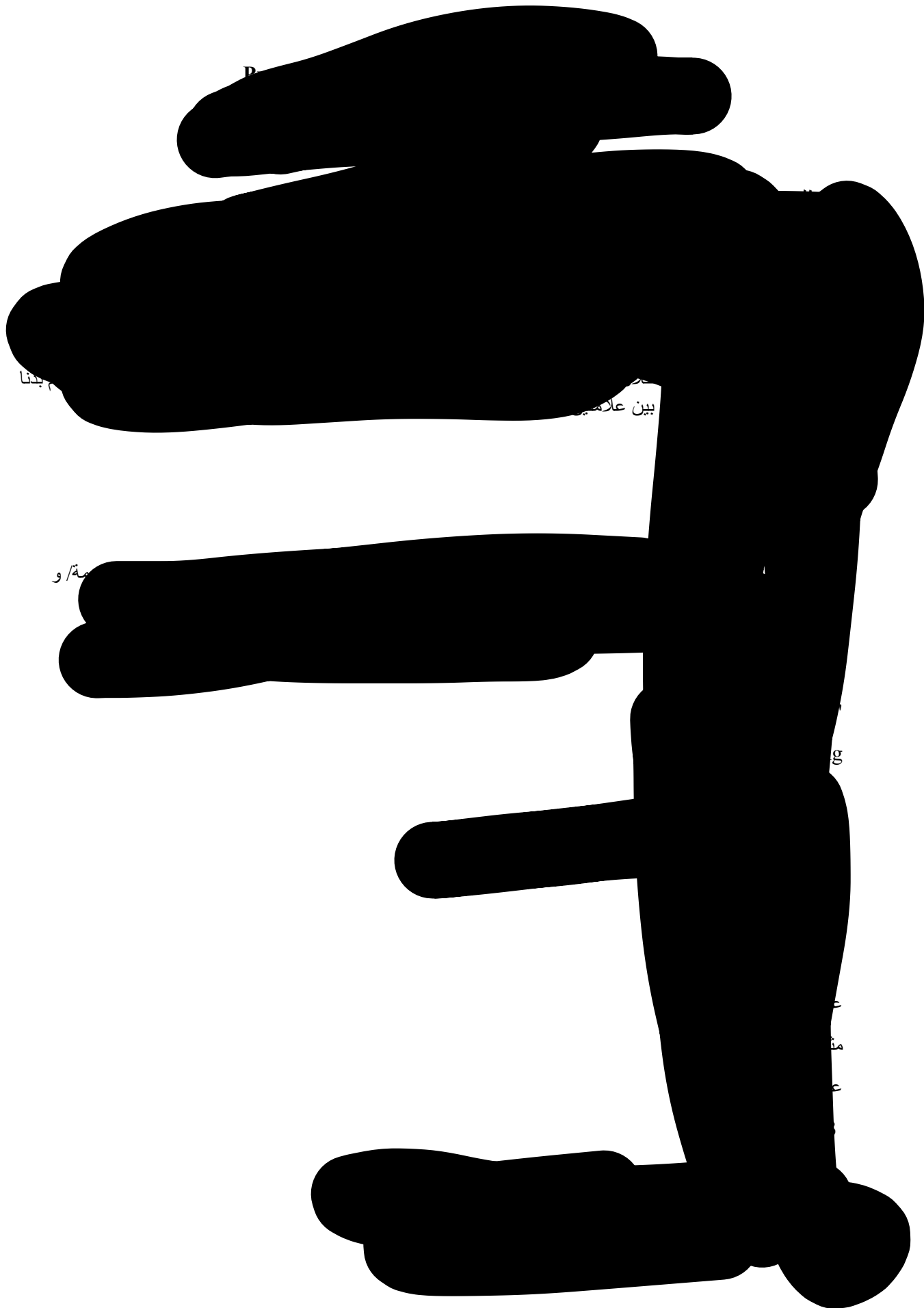
[Clear my choice](#)



◀ Review Quiz

Jump to...





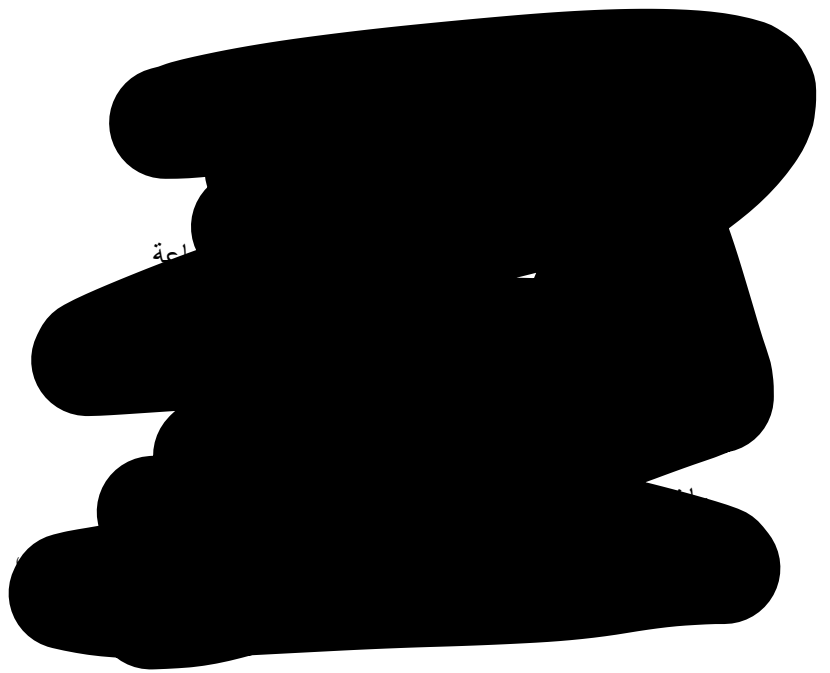
[REDACTED]

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glossary

[REDACTED]

[REDACTED]



Good Luck!

Started on	Wednesday, 1 May 2024, 2:36 PM
State	Finished
Completed on	Wednesday, 1 May 2024, 3:03 PM
Time taken	27 mins 31 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 1):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

Question 2

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

To join two operands end-to-end.

concatenate



What the Python interpreter does to an expression to find its value.

evaluate



A combination of variables, operators, and values that represents a single result value.

expression



A reserved word that is used by the interpreter to parse programs.

keyword



A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

operator



A unit of code that the Python interpreter can execute.

statement



A name that refers to a value.

variable



The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is an **invalid** Python assignment statement?

Select one:

- ☐ a. `a = b = 123`
- ☒ b. `'3' = 3` ✓
- ☐ c. `x = int("123")`
- ☐ d. `y = None`
- ☐ e. `z = "hi" * 10`

Your answer is correct.

The correct answer is: `'3' = 3`

Question 4

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print(1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

Question 6

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 7

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question 8

Correct

Mark 1.00 out of 1.00

In Python, the '+' operator can be used with numbers and with strings. What is a property that number addition has, but string concatenation **does not**?

Select one:

- ☐ a. Numeric addition is allowed on right-hand side of assignment statement.
- ☐ b. More than one numeric addition per expression is allowed.
- ☒ c. The expression value does not depend on the order of numeric addition operands. ✓
- ☐ d. Numeric addition is fast to execute.
- ☐ e. Numeric addition needs two operands.

Your answer is correct.

The correct answer is: The expression value does not depend on the order of numeric addition operands.

Question 9

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:

- ☐ a. 6
- ☒ b. 5 ✓
- ☐ c. 4
- ☐ d. 3

The correct answer is: 5

Question 10

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question 11

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 12

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)  
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator

Question 14

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)  
4
```

What is the text "4" called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☒ e. a value ✓

Your answer is correct.

The correct answer is: a value

Question 15

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

Question 16

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 17

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

Question 18

Correct

Mark 1.00 out of 1.00

In Python, the expression `"a**(b**c)"` is the same as `"(a**b)**c"`.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 19

Correct

Mark 1.00 out of 1.00

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Started on Tuesday, 30 April 2024, 5:55 AM**State** Finished**Completed on** Tuesday, 30 April 2024, 6:02 AM**Time taken** 7 mins 6 secs**Marks** 15.00/15.00**Grade** 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Successful students tend to log in and participate in class:

- ☐ a. Once per week
- ☐ b. Twice per week
- ☒ c. At least two to three times per week ✓
- ☐ d. Never

Your answer is correct.

The correct answer is:

At least two to three times per week

Question 2

Correct

Mark 1.00 out of 1.00

Links to the Learning Resource Center (LRC) can be found:

- ☒ a. In the "Resources" drop down menu of Moodle ✓
- ☒ b. In the "Student Toolkit" on the right hand side of Moodle ✓
- ☐ c. In your Textbook
- ☐ d. In your Instructor's Discussion Forum Posts

Your answer is correct.

The correct answers are:

In the "Resources" drop down menu of Moodle,

In the "Student Toolkit" on the right hand side of Moodle

Question 3

Correct

Mark 1.00 out of 1.00

To find the UoPeople code of conduct, students should:

Select one:

- ☒ a. Read the Academic Policies Section of the UoPeople Catalog ✓
- ☐ b. Ask their Academic Advisor
- ☐ c. Ask the course instructor
- ☐ d. Check the syllabus

The correct answer is: Read the Academic Policies Section of the UoPeople Catalog

Question 4

Correct

Mark 1.00 out of 1.00

The course catalog has a lot of very important information in it, and is basically a student's guide to the University. Where can students find a copy of the course catalog to save and refer to regularly?

Select one:

- ☐ a. They should ask their Academic Advisor to email them a copy of the course catalog.
- ☐ b. They should find it in one of their textbooks.
- ☒ c. They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page. ✓
- ☐ d. All of the above.

The correct answer is: They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page.

Question 5

Correct

Mark 1.00 out of 1.00

A list of courses in each degree program can be found in

- ☒ a. The University Catalog ✓
- ☐ b. Your Course Syllabus
- ☐ c. An Email from your Instructor
- ☐ d. Moodle Messenger

Your answer is correct.

The correct answer is:

The University Catalog

Question 6

Correct

Mark 1.00 out of 1.00

To write a successful discussion post, students should:

Select one:

- ☒ a. Use a writing process similar to writing papers ✓
- ☐ b. Use informal, non-academic language
- ☐ c. Only discuss personal experience with the topic
- ☐ d. Ignore citation rules because it's a discussion

The correct answer is: Use a writing process similar to writing papers

Question 7

Correct

Mark 1.00 out of 1.00

In writing, using all capital letters is considered to be:

Select one:

- ☐ a. Enthusiastic
- ☒ b. Screaming ✓
- ☐ c. Amusing
- ☐ d. Whimsical

The correct answer is: Screaming

Question 8

Correct

Mark 1.00 out of 1.00

In Chapter 2 of *College Success*, we learned about Goal Setting. The reading states that goals should be:

- ☐ a. Easy to achieve, realistic, and have a timeframe
- ☒ b. Realistic, have a timeframe, and specific ✓
- ☐ c. Popular with others, specific, and realistic
- ☐ d. East to achieve, popular, and realistic

Your answer is correct.

The correct answer is:

Realistic, have a timeframe, and specific

Question 9

Correct

Mark 1.00 out of 1.00

Replies to peers' discussion forum posts should be:

- ☐ a. At least 100 words
- ☐ b. Move the discussion forward
- ☐ c. Contain both positive comments and suggestions for improvement
- ☒ d. All of the above ✓

Your answer is correct.

The correct answer is:

All of the above

Question 10

Correct

Mark 1.00 out of 1.00

_____ is a platform that we suggest for UNIV students to connect with other new students

- ☐ a. Facebook
- ☐ b. Instagram
- ☒ c. Yammer ✓
- ☐ d. Whats App

Your answer is correct.

The correct answer is:

Yammer

Question 11

Correct

Mark 1.00 out of 1.00

True or False: The Learning Journal is a document that only you and your Instructor can view

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

According to Chapter one of *College Success*, successful students possess these traits:

- ☐ a. They avoid asking questions of their instructors.
- ☒ b. They develop their writing skills ✓
- ☒ c. They stay motivated ✓
- ☐ d. They eat fast food, so that they have more time for studying.

Your answer is correct.

The correct answers are:

They develop their writing skills,

They stay motivated

Question 13

Correct

Mark 1.00 out of 1.00

True or False: According to Chapter 12 of *College Success*, there is a difference between a career and a job.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 14

Correct

Mark 1.00 out of 1.00

True or False: Discussion posts facilitate discussions similar to on-site class discussions.

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Question 15

Correct

Mark 1.00 out of 1.00

According to Chapter Two of *College Success* some tips for staying motivated include:

- ☒ a. Planning ahead to avoid last minute pressures ✓
- ☒ b. Keeping a positive attitude ✓
- ☒ c. Keeping your eye on long term goals ✓
- ☐ d. Multi-tasking

Your answer is correct.

The correct answers are:

Planning ahead to avoid last minute pressures,

Keeping a positive attitude,

Keeping your eye on long term goals

Started on	Tuesday, 30 April 2024, 12:11 AM
State	Finished
Completed on	Tuesday, 30 April 2024, 12:30 AM
Time taken	19 mins 40 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

In Python, the expression "a**(b**c)" is the same as "(a**b)**c".

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 2

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print ((1+1)**(5-2))
```

Select one:

- ☐ a. 16
- ☒ b. 8 ✓
- ☐ c. 4
- ☐ d. 2

The correct answer is: 8

Question 3

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

Question 4

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 6

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 7

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a **syntax error**?

Select one:

- ☐ a. 2 ^ 2
- ☐ b. 2 ** 2
- ☐ c. 2 +- 2
- ☒ d. 2 += 2 ✓
- ☐ e. 2 -+ 2

Your answer is correct.

The correct answer is: 2 += 2

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 1):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

Question 9

Correct

Mark 1.00 out of 1.00

What is the output of the following Python 3 statements?

```
x=2  
y=1  
if x == y:  
    print (x, "and", y, "are equal")  
else:  
    if x < y:  
        print (x, "is less than", y)  
    else:  
        print (x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☒ d. 2 is greater than 1 ✓

Your answer is correct.

The correct answer is: 2 is greater than 1

Question 10

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 11

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "print" called?

Select one:

- ☒ a. a function ✓
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: a function

Question 12

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
percentage = ( 60 * 100) // 55  
print (percentage)
```

Select one:

- ☐ a. percentage
- ☒ b. 109 ✓
- ☐ c. 109.0909090909091
- ☐ d. 109.0

Your answer is correct.

The correct answer is: 109

Question 14

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print (1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

Question 15

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 16

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question 17

Correct

Mark 1.00 out of 1.00

Using keywords for variable names will result in a _____

Select one:

- ☐ a. runtime error
- ☐ b. compile error
- ☒ c. syntax error ✓
- ☐ d. semantic error

The correct answer is: syntax error

Question 18

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print(n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

Question 19

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language

✓

Any one of the languages that people speak that evolved naturally.

natural language

✓

An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error

✓

An error in a program that makes it do something other than what the programmer intended.

semantic error

✓

The meaning of a program.

semantics

✓

The structure of a program.

syntax

✓

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error

✓

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token

✓

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token



CS 1101 Graded-Quiz Unit 3

Programming Fundamentals (University of the People)



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Graded Quiz Unit 3

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print ((1+1)**(5-2))
```

Select one:

- ☐ a. 16
- ☒ b. 8
- ☐ c. 4
- ☐ d. 2

Feedback

The correct answer is: 8

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument
- ☐ b. return value

- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Feedback

Your answer is correct.

The correct answer is: argument

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

☒ True

☐ False

Feedback

The correct answer is 'True'.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python 3 statements?

```
x=2
y=1
if x == y:
    print (x, "and", y, "are equal")
else:
```

```
if x < y:  
    print (x, "is less than", y)  
else:  
    print (x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☒ d. 2 is greater than 1

Feedback

Your answer is correct.

The correct answer is: 2 is greater than 1

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:

- ☐ a. 6
- ☒ b. 5
- ☐ c. 4
- ☐ d. 3

Feedback

The correct answer is: 5

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091
- ☐ d. 109.0

Feedback

The correct answer is: 109.0909090909091

Question 7

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True
- ☐ False

Feedback

The correct answer is 'True'.

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print (2 * (3-1))
```

Select one:

- ☐ a. 6
- ☐ b. 5
- ☒ c. 4
- ☐ d. 3

Feedback

The correct answer is: 4

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True
- ☐ False

Feedback

The correct answer is 'True'.

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python 3 statement produce?

```
>>> print (1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0

- ☐ d. Error invalid type

Feedback

The correct answer is: 1 0 0

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A **program** is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☒ True

- ☐ False

Feedback

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Python functions may or may not take arguments and may or may not return a result.

Select one:

☒ True

☐ False

Feedback

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than what the programmer intended.

Answer 1

formal language

Answer 2

natural language

Answer 3

runtime error

Answer 4

semantic error

The meaning of a program.

Answer 5

semantics

The structure of a program.

Answer 6

syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

Answer 7

syntax error

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 8

token

Feedback

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:



True



False

Feedback

The correct answer is 'False'.

Question 15

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 1):  
        print(a)  
    else:  
        recurse(a)
```

recurse(1)

Select one:

- ☐ a. 0
- ☒ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Feedback

Your answer is correct.

The correct answer is: 1

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17

Feedback

The correct answer is: 17

Question 17

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In Python, the expression "a**(b**c)" is the same as "(a**b)**c".

Select one:

- ☐ True
- ☒ False

Feedback

The correct answer is 'False'.

Question 18

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

To join two operands end-to-end.

Answer 1

What the Python interpreter does to an expression to find its value.

Answer 2

A combination of variables, operators, and values that represents a single result value.

Answer 3

A reserved word that is used by the interpreter to parse programs.

Answer 4

A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

Answer 5

A unit of code that the Python interpreter can execute.

Answer 6

A name that refers to a value.

Answer 7

Feedback

The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

Question 19

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "print" called?

Select one:

- ☒ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Feedback

Your answer is correct.

The correct answer is: a function

Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following is an **invalid** Python assignment statement?

Select one:

- ☐ a. `a = b = 123`
- ☒ b. `'3' = 3`
- ☐ c. `x = int("123")`
- ☐ d. `y = None`
- ☐ e. `z = "hi" * 10`

Feedback

Your answer is correct.

The correct answer is: `'3' = 3`



CS 1101 Graded quiz Unit 3

Programming Fundamentals (University of the People)



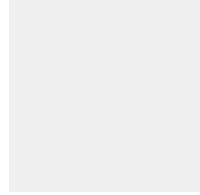
Scan to open on Studocu

Started on	Thursday, 24 November 2022, 7:22 AM
State	Finished
Completed on	Thursday, 24 November 2022, 8:00 AM
Time taken	37 mins 28 secs
Marks	19.00/20.00
Grade	95.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:



a.

0



b.

17.0



c.

n



d.

17

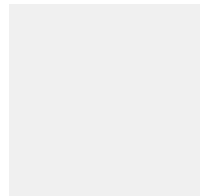
Feedback

The correct answer is: 17

Question 2

Correct

Mark 1.00 out of 1.00



Flag question

Question text

A **program** is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☒ True
- ☐ False

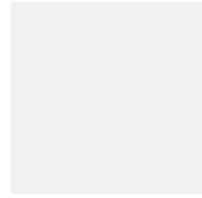
Feedback

The correct answer is 'True'.

Question **3**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

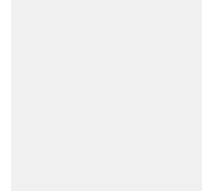
- ☒ a.
argument
- ☐ b.
return value
- ☐ c.
method
- ☐ d.
the special value None
- ☐ e.
global variable

Feedback

Your answer is correct.

The correct answer is: argument

Question **4**
Correct
Mark 1.00 out of 1.00



Flag question

Question text
Match concepts with their definition!

To join two operands end-to-end.

Answer 1

concatenate

What the Python interpreter does to an expression to find its value.

Answer 2

evaluate

A combination of variables, operators, and values that represents a single result value.

Answer 3

expression

A reserved word that is used by the interpreter to parse programs.

Answer 4

keyword

A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

Answer 5

operator

A unit of code that the Python interpreter can execute.

Answer 6

statement

A name that refers to a value.

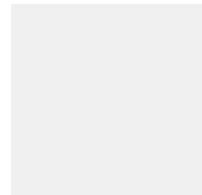
Answer 7

variable

Feedback

The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

Question **5**
Correct
Mark 1.00 out of 1.00



Flag question

Question text

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

☒ True

☐ False

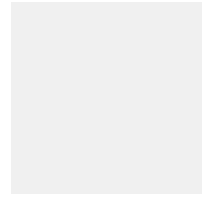
Feedback

The correct answer is 'True'.

Question **6**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than what the programmer intended.

The meaning of a program.

The structure of a program.

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 1

formal language

Answer 2

natural language

Answer 3

runtime error

Answer 4

semantic error

Answer 5

semantics

Answer 6

syntax

Answer 7

syntax error

Answer 8

token

Feedback

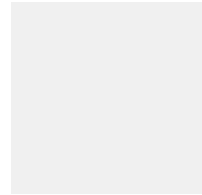
The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal

language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question **7**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:



True



False

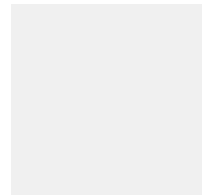
Feedback

The correct answer is 'True'.

Question **8**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "+" called?

Select one:



- a.
a function
- ☒ b.
an operator
- ☐ c.
a prompt
- ☐ d.
a statement
- ☐ e.
a value

Feedback

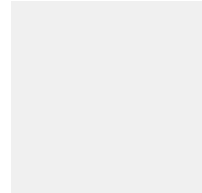
Your answer is correct.

The correct answer is: an operator

Question **9**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True
- ☐ False

Feedback

The correct answer is 'True'.

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "4" called?

Select one:



a.
a function



b.
an operator



c.
a prompt



d.
a statement



e.
a value

Feedback

Your answer is correct.

The correct answer is: a value

Question **11**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print ((1+1)**(5-2))
```

Select one:



a.
16



b.
8



c.
4



d.
2

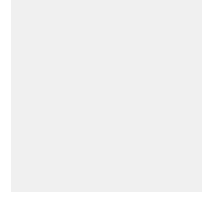
Feedback

The correct answer is: 8

Question **12**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0
```

```
>>> print (percentage)
```

Select one:



a.
percentage



b.
109



c.
109.0909090909091



d.
109.0

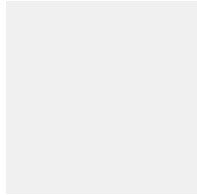
Feedback

The correct answer is: 109.0909090909091

Question 13

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python 3 statement produce?

```
>>> print(1,000,000)
```

Select one:



a.
1.0



b.
1,000,000



c.
1 0 0



d.
Error invalid type

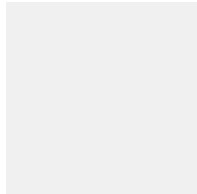
Feedback

The correct answer is: 1 0 0

Question 14

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Which one of the following Python expressions generates a **syntax error**?

Select one:



a.
 $2 \wedge 2$



b.
 $2 ** 2$



c.
 $2 +- 2$



d.
 $2 += 2$



e.
 $2 -+ 2$

Feedback

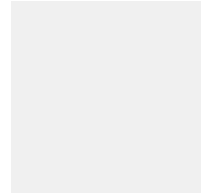
Your answer is correct.

The correct answer is: $2 += 2$

Question **15**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Using keywords for variable names will result in a _____

Select one:



a.
runtime error



b.
compile error



c.
syntax error



d.
semantic error

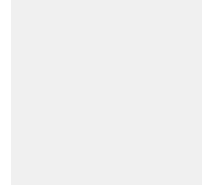
Feedback

The correct answer is: syntax error

Question **16**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:



True



False

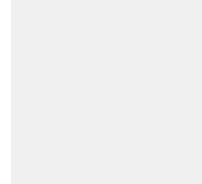
Feedback

The correct answer is 'False'.

Question **17**

Incorrect

Mark 0.00 out of 1.00



Flag question

Question text

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:



a.

6



b.

5



c.

4



d.

3

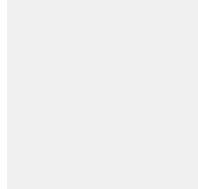
Feedback

The correct answer is: 5

Question **18**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

If you assign the result of calling a void function to a variable in Python, you get:

Select one:



a.

an empty string



b.

the value -1



c.

the value 0



d.

the special value None



e.

an exception

Feedback

Your answer is correct.

The correct answer is: the special value None

Question **19**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "print" called?

Select one:



a.
a function



b.
an operator



c.
a prompt



d.
a statement



e.
a value

Feedback

Your answer is correct.

The correct answer is: a function

Question **20**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In Python, the expression "a**(b**c)" is the same as "(a**b)**c".

Select one:

- ☐ True
- ☒ False

Feedback

The correct answer is 'False'.



CS 1101 Graded quiz unit 6

Programming Fundamentals (University of the People)



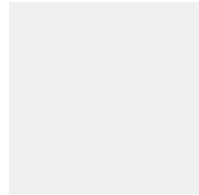
Scan to open on Studocu

Started on	Thursday, 15 December 2022, 10:38 AM
State	Finished
Completed on	Thursday, 15 December 2022, 11:10 AM
Time taken	32 mins 6 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What is the return type of the Python function shown below?

```
def is_divisible(x, y):  
    return (x % y) == 0
```

Select one:



a.
int



b.
float



c.
bool



d.
string



e.
NoneType

Feedback

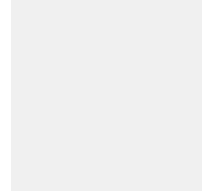
Your answer is correct.

The correct answer is: bool

Question **2**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Expressions evaluate to either True or False. What will be the output of the following Python 3 program?

```
if "Ni!":  
    print ('We are the Knights who say, "Ni!"')  
else:  
    print ("Stop it! No more of this!")
```

Select one:



a.
Stop it!



b.
We are the Knights who say, "Ni!"



c.
Stop it! No more of this!"



d.
No output will be produced

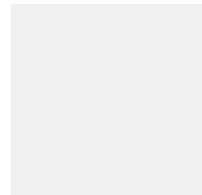
Feedback

The correct answer is: We are the Knights who say, "Ni!"

Question **3**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What is the output of the following Python 3 statements?

```
x=1
```

```
y=2
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:



a.
1 and 2 are equal



b.
1 is less than 2



c.
1 is greater than 2



d.
2 is greater than 1

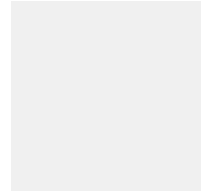
Feedback

The correct answer is: 1 is less than 2

Question **4**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python program produce?

```
def area(l, w):
    temp = l * w
    return temp
l = 4.0
w = 3.25
x = area(l, w)
if ( x ):
    print (x)
```

Select one:



a.
13.0



b.
0



c.
Expression does not evaluate to boolean true



d.
13

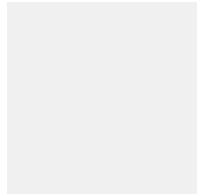
Feedback

The correct answer is: 13.0

Question **5**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

Will the Python code below print something? And will it terminate?

```
def print_n(s, n):  
    if n > 0:  
        print(s)  
        print_n(s, n-1)  
    return n  
n = 3  
while print_n("hi", n):  
    print_n("there!", n)  
    n = 0
```

Select one:



a.
no and no



b.
yes and no



c.
no and yes



d.
yes and yes



e.
syntax error

Feedback

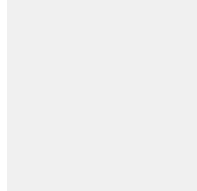
Your answer is correct.

The correct answer is: yes and yes

Question 6

Correct

Mark 1.00 out of 1.00



Flag question

Question text

A loop where the terminating condition is never achieved is called _____.

Select one:



a.
an infinite loop



b.
a universal loop



c.
a while loop



d.
a for .. ever loop

Feedback

The correct answer is: an infinite loop

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following interactive Python statements produce?

```
>>> n = 2
>>> n += 5
>>> n
```

Select one:

☒

a.
7

☐

b.
5

☐

c.
0

☐

d.
None

Feedback

Your answer is correct.

The correct answer is: 7

Question **8**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the Python code below?

```
s = "help"
for letter in s[1:]:
    last = letter
```

```
break
print(last)
```

Select one:



a.
h



b.
e



c.
!



d.
p



e.
l

Feedback

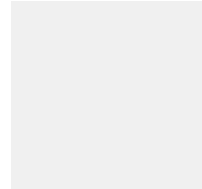
Your answer is correct.

The correct answer is: e

Question **9**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

The following Python 3 code is an example of what principle?

```
bruce = 5
print (bruce,)
bruce = 7
print (bruce)
```

Select one:



a.
Reassignment



b.
An Iteration or loop structure



c.
A logical operator



d.
A conditional expression

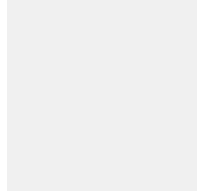
Feedback

The correct answer is: Reassignment

Question **10**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python 3 script produce?

```
def function2(param):  
    print (param, param)  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
chant1 = "See You"  
chant2 = "See Me"  
function1(chant1, chant2)
```

Select one:



a.
See You See Me



b.
See You See Me See You See Me



c.
See Me See Me See You See You



d.
None it would generate an error

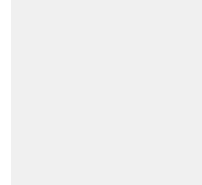
Feedback

The correct answer is: See You See Me See You See Me

Question **11**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

True or False: A local variable is a variable defined inside a function that can only be used inside its function.

Select one:



True



False

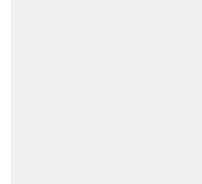
Feedback

The correct answer is 'True'.

Question **12**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

With built in functions, it is generally acceptable to take a "Leap of Faith".

Select one:



True



False

Feedback

The correct answer is 'True'.

Question **13**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python 3 program produce?

```
n = 10
while n != 1:
    print(n,)
    if n % 2 == 0: # n is even
        n = n / 2
    else: # n is odd
        n = n * 3 + 1
```

Select one:



a.
10 5 16 8 4 2



b.
None an error will be displayed



c.
8 4 2



d.
9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

Feedback

The correct answer is: 10 5 16 8 4 2

Question **14**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python program?

```
pi = int(3.14159)
print (pi)
```

Select one:



a.
3



b.
3.0



c.
3.14159



d.
0

Feedback

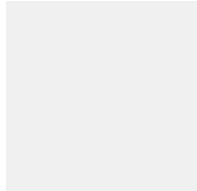
Your answer is correct.

The correct answer is: 3

Question **15**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What is the return type of the Python function shown below?

```
isinstance(10.001, float)
```

Select one:



a.
int



b.
float



c.
bool



d.

string



e.
NoneType

Feedback

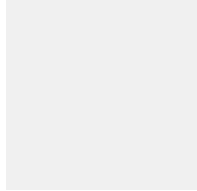
Your answer is correct.

The correct answer is: bool

Question **16**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

What output will the following Python program produce?

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n / 10
    n=int(n)
print(count)
```

Select one:



a.
5



b.
0



c.
10000



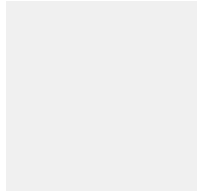
d.
1000

Feedback

The correct answer is: 5

Question **17**

Correct
Mark 1.00 out of 1.00



Flag question

Question text

Repeated execution of a set of programming statements is called **repetitive execution**.

Select one:

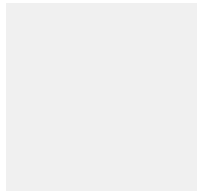
- ☐ True
- ☒ False

Feedback

The correct answer is 'False'.

Question **18**

Correct
Mark 1.00 out of 1.00



Flag question

Question text

A stack diagram shows the value of each variable and the function to which each variable belongs.

Select one:

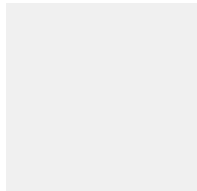
- ☒ True
- ☐ False

Feedback

The correct answer is 'True'.

Question **19**

Correct
Mark 1.00 out of 1.00



Flag question

Question text

The operands of the logical operators should be boolean expressions, but Python is not very strict. Any nonzero number is interpreted as True.

Select one:

- ☒ True
- ☐ False

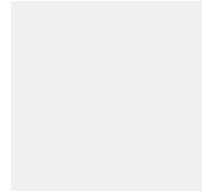
Feedback

The correct answer is 'True'.

Question **20**

Correct

Mark 1.00 out of 1.00



Flag question

Question text

The statements inside of a Python loop are known as the ____ of the loop.

Select one:

- ☒ a.
body
- ☐ b.
expression
- ☐ c.
counter
- ☐ d.
block

Feedback

The correct answer is: body



CS 1101 Review Quiz Attempt review

Programming Fundamentals (University of the People)



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Started on Sunday, 28 May 2023, 7:35 PM

State Finished

Completed on Sunday, 28 May 2023, 8:26 PM

Time taken 51 mins 2 secs

Marks 26.00/30.00

Grade **86.67** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

The correct answer is: 3.14159

Question **2**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. `8 ^ 2`
- ☐ b. `8 ** 2`
- ☐ c. `8 +- 2`
- ☒ d. `8 += 2` ✓
- ☐ e. `8 -+ 2`

Your answer is correct.

The correct answer is: `8 += 2`

Question **3**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
n = 10
while n != 1:
    print(n, end=' ')
    if n % 2 == 0:      # n is even
        n = n // 2
    else:              # n is odd
        n = n * 3 + 1
```

Select one:

- ☒ a. `10 5 16 8 4 2` ✓
- ☐ b. None an error will be displayed
- ☐ c. `8 4 2`
- ☐ d. `9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2`

The correct answer is: `10 5 16 8 4 2`

Question **4**

Correct

Mark 1.00 out of 1.00

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☒ d. tuple ✓
- ☐ e. All of the above

Your answer is correct.

The correct answer is: tuple

Question **5**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is fin?

Select one:

- ☒ a. A file object ✓
- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Your answer is correct.

The correct answer is: A file object

Question **6**

Correct

Mark 1.00 out of 1.00

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n // 10

print (count)
```

Select one:

- ☒ a. 5 ✓
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question **7**

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question **8**

Correct

Mark 1.00 out of 1.00

The Python line below causes "5 dollars" to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **9**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions has the value 64?

Select one:

- ☐ a. 8^2
- ☒ b. $8^{**}2$ ✓
- ☐ c. $8+-2$
- ☐ d. $8+=2$
- ☐ e. $8-+2$

Your answer is correct.

The correct answer is: $8^{**}2$

Question **10**

Incorrect

Mark 0.00 out of 1.00

In Python, a list of characters is the same as a string.

Select one:

- ☒ True **✗**
- ☐ False

The correct answer is 'False'.

Question **11**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]  
print(" ".join(mylist[1::2]))
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☒ c. four score and seven years **✓**
- ☐ d. now four is score the and seven time years for

Your answer is correct.

The correct answer is: four score and seven years

Question **12**

Correct

Mark 1.00 out of 1.00

Boolean expressions control _____

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above ✓

The correct answer is: all of the above

Question **13**

Correct

Mark 1.00 out of 1.00

String objects are modified with string slices.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **14**

Correct

Mark 1.00 out of 1.00

What is the value of the following Python expression?

`not(True and False)`

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **15**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is line?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☒ d. A string that may have a newline ✓
- ☐ e. A string with no newline

Your answer is correct.

The correct answer is: A string that may have a newline

Question **16**

Correct

Mark 1.00 out of 1.00

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question **17**

Correct

Mark 1.00 out of 1.00

What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☒ a. [1, 4, 2, 3, 5] ✓
- ☐ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

The correct answer is: [1, 4, 2, 3, 5]

Question **18**

Incorrect

Mark 0.00 out of 1.00

For the Python program below, will there be any output, and will the program terminate?

```
while True:
    while 1 > 0:
        break
    print("Got it!")
    break
```

Select one:

- ☐ a. Yes and no
- ☒ b. No and no ✖
- ☐ c. Yes and yes
- ☐ d. No and yes
- ☐ e. Run-time error

Your answer is incorrect.

The correct answer is: Yes and yes

Question **19**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:

- ☒ a. Lines in a file ✓
- ☐ b. Lines in a list
- ☐ c. Words in a dictionary
- ☐ d. Words in a list
- ☐ e. Words in a string

Your answer is correct.

The correct answer is: Lines in a file

Question **20**

Incorrect

Mark 0.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is word?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☒ c. A list of words ✗
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Your answer is incorrect.

The correct answer is: A string with no newline

Question **21**

Correct

Mark 1.00 out of 1.00

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **22**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000 ✓
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

The correct answer is: 5 5 5.000000

Question **23**

Correct

Mark 1.00 out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:  
    if d[k] == v:  
        return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☒ e. a reverse lookup ✓

Your answer is correct.

The correct answer is: a reverse lookup

Question **24**

Correct

Mark 1.00 out of 1.00

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")  
print(index)
```

Select one:

- ☒ a. 24 ✓
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

The correct answer is: 24

Question **25**

Incorrect

Mark 0.00 out of 1.00

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question **26**

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **27**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
a=0
b=0
total = 0
while a <= 2:
    while b < 2:
        total += mylist[a][b]
        b += 1
    a += 1
    b = 0
print (total)
```

Select one:

- ☒ a. 14 ✓
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

The correct answer is: 14

Question **28**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☒ d. RuntimeError: maximum recursion depth exceeded ✓

Your answer is correct.

The correct answer is: RuntimeError: maximum recursion depth exceeded

Question **29**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
try:
    fin = open('answer.txt')
    fin.write('Yes')
except:
    print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☐ c. Maybe
- ☐ d. Yes
Maybe
- ☒ e. No ✓
Maybe

Your answer is correct.

The correct answer is: No
Maybe

Question **30**

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Jump to...



Cs 1101 Review Quiz - Final Exam practice test

Programming Fundamentals (University of the People)



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Started on	Monday, 7 January 2019, 8:58 PM
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State	Finished
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Completed on	Monday, 7 January 2019, 8:58 PM
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Time taken	43 secs
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Marks	3.00/80.00
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Grade	3.75 out of 100.00
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Question 1

Correct

Mark 1.00 out of 1.00

The COBOL language was designed to solve business problems and was adapted to processing business transactions

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 2

Correct

Mark 1.00 out of 1.00

The statements inside of a loop are known as the ____ of the loop.

Select one:

- ☒ a. body ✓
- ☐ b. expression
- ☐ c. counter
- ☐ d. block

The correct answer is: body

Question 3

Correct

Mark 1.00 out of 1.00

What does the following symbol mean when used in a flowchart?



Select one:

- ☐ a. Decision
- ☒ b. Start/End ✓
- ☐ c. Input/Output
- ☐ d. Sub-routine process

The correct answer is: Start/End

Question 4

Incorrect

Mark 0.00 out of 1.00

What will the output of this program be when it is executed?

```
def test_function( length, width, height):  
    print ("the area of the box is ", length*width*height)  
    return length*width*height
```

```
l = 12.5
```

```
w = 5
```

```
h = 2
```

```
test_function(l, w, h)
```

```
print ("The area of the box is ", length*width*height)
```

Select one:

- ☐ a. A NameError because a variable not defined
- ☒ b. The area of the box is 125.0 ✖
- ☐ c. The area of the box is 0
- ☐ d. A SyntaxError due to illegal function call

The correct answer is: A NameError because a variable not defined

Question 5

Not answered

Marked out of 1.00

In the following segment of code what do we call the portion of the statement that follows the dot (capitalize)?

```
string.capitalize('maryland')
```

Select one:

- ☐ a. Module
- ☐ b. Method
- ☐ c. Attribute
- ☐ d. Function name

The correct answer is: Method

Question 6

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
>>> print ((1+1)**(5-2))
```

Select one:

- ☐ a. 16
- ☐ b. 8
- ☐ c. 4
- ☐ d. 2

The correct answer is: 8

Question 7

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
>>> print (2*3-1)
```

Select one:

- ☐ a. 6
- ☐ b. 5
- ☐ c. 4
- ☐ d. 3

The correct answer is: 5

Question 8

Not answered

Marked out of 1.00

Memory that can maintain its state without power is known as.

Select one:

- ☐ a. Non volatile memory
- ☐ b. Flash drives
- ☐ c. Random access memory (RAM)
- ☐ d. Disk drive storage

The correct answer is: Non volatile memory

Question 9

Not answered

Marked out of 1.00

Given the following code, what will the output be?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 7:
    print (mylist[a],)
    a += 2
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☐ c. for score and seven years
- ☐ d. now four is score the and seven time years for

The correct answer is: now is the time

Question 10

Not answered

Marked out of 1.00

: A data type in which the values are made up of components, or elements, that are themselves values is known as an object data type.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 11

Not answered

Marked out of 1.00

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 12

Not answered

Marked out of 1.00

What output will the following Python script produce?

```
def function2(param):  
    print (param, param)
```

```
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)
```

```
chant1 = "See You "  
chant2 = "See Me "  
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☐ b. See You See Me See You See Me
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

The correct answer is: See You See Me See You See Me

Question 13

Not answered

Marked out of 1.00

Which of the following is NOT one of the rules for pseudo code:

Select one:

- ☐ a. Indent to show hierarchy
- ☐ b. Keep statements language independent
- ☐ c. Write only one statement per line
- ☐ d. Capitalize every word

The correct answer is: Capitalize every word

Question 14

Not answered

Marked out of 1.00

Which of the following is NOT one of the computer languages developed in the 1950s.

Select one:

- ☐ a. COBOL
- ☐ b. Fortran
- ☐ c. BASIC (Beginners All Purpose Symbolic Instruction Code)
- ☐ d. LISP

The correct answer is: BASIC (Beginners All Purpose Symbolic Instruction Code)

Question 15

Not answered

Marked out of 1.00

The following code is an example of what principle?

```
bruce = 5  
print (bruce,)  
bruce = 7  
print (bruce)
```

Select one:

- ☐ a. Multiple assignment
- ☐ b. An Iteration or loop structure
- ☐ c. A logical operator
- ☐ d. A conditional expression

The correct answer is: Multiple assignment

Question 16

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
>>> print (2 * (3-1))
```

Select one:

- ☐ a. 6
- ☐ b. 5
- ☐ c. 4
- ☐ d. 3

The correct answer is: 4

Question 17

Not answered

Marked out of 1.00

An advantage of Pseudo code is that it is a visual technique.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 18

Not answered

Marked out of 1.00

Encapsulation is the process of wrapping a piece of code in a function

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 19

Not answered

Marked out of 1.00

Functions can only return Boolean expressions.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 20

Not answered

Marked out of 1.00

One of the advantages of a function is that it allows the programmer to alter the flow of execution in the program.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 21

Not answered

Marked out of 1.00

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

The correct answer is: 3.14159

Question 22

Not answered

Marked out of 1.00

What will the following code segment do?

```
infile.readlines()
```

Select one:

- ☐ a. Read all remaining lines in a file
- ☐ b. Read the next consecutive line from a file
- ☐ c. Print the contents of the file
- ☐ d. Print the first line in the file

The correct answer is: Read all remaining lines in a file

Question **23**

Not answered

Marked out of 1.00

What does the following symbol mean when used in a flowchart?



Select one:

- ☐ a. Sub-routine process
- ☐ b. Decision
- ☐ c. Input/Output
- ☐ d. Process

The correct answer is: Process

Question 24

Not answered

Marked out of 1.00

What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☐ a. [1, 4, 2, 3, 5]
- ☐ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

The correct answer is: [1, 4, 2, 3, 5]

Question 25

Not answered

Marked out of 1.00

What does function subroutine do?

```
def subroutine( n ):
    while n > 0:
        print (n,)
        n -= 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☐ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

The correct answer is: Counts from n down to 1 and displays each number

Question **26**

Not answered

Marked out of 1.00

Every flowchart must have a START and STOP symbol.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question **27**

Not answered

Marked out of 1.00

Repeated execution of a set of programming statements is called repetitive execution.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 28

Not answered

Marked out of 1.00

What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
```

```
a=0
```

```
b=0
```

```
total = 0
```

```
while a <= 2:
```

```
    while b < 2:
```

```
        total += mylist[a][b]
```

```
        b += 1
```

```
    a += 1
```

```
    b = 0
```

```
print (total)
```

Select one:

- ☐ a. 14
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

The correct answer is: 14

Question 29

Not answered

Marked out of 1.00

Fortran language was designed to process business transactions

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 30

Not answered

Marked out of 1.00

A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

- ☐ a. structured development
- ☐ b. incremental development
- ☐ c. unit testing
- ☐ d. Systems development life cycle

The correct answer is: incremental development

Question 31

Not answered

Marked out of 1.00

Given any real numbers a and b , exactly one of the following relations holds: $a < b$, $a > b$, or $a = b$. Thus when you can establish that two of the relations are false, you can assume the remaining one is true.

This principle is known as:

Select one:

- ☐ a. trichotomy
- ☐ b. abstraction
- ☐ c. the distributive property
- ☐ d. the transitive property

The correct answer is: trichotomy

Question 32

Not answered

Marked out of 1.00

In the following Python statement, what do we call the portion of the statement before the dot ('string.')?

```
string.capitalize('maryland')
```

Select one:

- ☐ a. Module
- ☐ b. Method
- ☐ c. Function name
- ☐ d. Attribute

The correct answer is: Module

Question 33

Not answered

Marked out of 1.00

Perl, Python, and PHP are all compiled languages

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 34

Not answered

Marked out of 1.00

What will the output of this python program be?

```
def test_function( length, width, height):  
    print ("the area of the box is ",length*width*height)  
    return length*width*height
```

l = 12.5

w = 5

h = 2

test_function(l, w, h)

Select one:

- ☐ a. The area of the box is 125
- ☐ b. The area of the box is 125.0
- ☐ c. The area of the box is 120
- ☐ d. 125.0

The correct answer is: The area of the box is 125.0

Question 35

Not answered

Marked out of 1.00

A stack diagram shows the value of each variable and the function to which each variable belongs.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 36

Not answered

Marked out of 1.00

True or False: A local variable is a variable defined inside a function that can only be used inside its function.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 37

Not answered

Marked out of 1.00

Match the following terms and definitions

The order in which statements are executed during a program run.

Choose...

The first part of a compound statement begins with a keyword and ends with a colon (:)

Choose...

A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses.

Choose...

A variable defined inside a function that can only be used inside its function.

Choose...

A graphical representation of functions, their variables, and the values to which they refer.

Choose...

The correct answer is: The order in which statements are executed during a program run. → flow of execution, The first part of a compound statement begins with a keyword and ends with a colon (:) → header, A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses. → function call, A variable defined inside a function that can only be used inside its function. → local variable, A graphical representation of functions, their variables, and the values to which they refer. → stack diagram

Question 38

Not answered

Marked out of 1.00

Creating a python script file with a .py extension on the filename and placing it in the appropriate directory is all that is required to create a module?

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 39

Not answered

Marked out of 1.00

A popular computer language developed by Dennis Ritchie and Ken Thompson at Bell Labs in the 70s is.

Select one:

- ☐ a. APL
- ☐ b. Basic
- ☐ c. C
- ☐ d. PL/1

The correct answer is: C

Question 40

Not answered

Marked out of 1.00

The concept of a computer bug was first attributed to _____ who found a moth stuck in a relay that caused a failure in a computer at Harvard University. The term debugging has since come to mean correcting errors in a computer or computer program.

Select one:

- ☐ a. Grace Murray Hopper
- ☐ b. John von Neumann
- ☐ c. Charles Babbage
- ☐ d. Konrad Zuse

The correct answer is: Grace Murray Hopper

Question 41

Not answered

Marked out of 1.00

Variables that are defined inside of a module are called what?

Select one:

- ☐ a. Attributes
- ☐ b. Local Variables
- ☐ c. Methods
- ☐ d. Keywords

The correct answer is: Attributes

Question 42

Not answered

Marked out of 1.00

What output will the following python command produce:

```
>>> percentage = float ( 60 * 100) / 55  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☐ c. 109.0909090909091
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 43

Not answered

Marked out of 1.00

The C language was developed at Bell Labs with the objective of being the first object-oriented language

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question **44**

Not answered

Marked out of 1.00

True or False: The graphical representation of a stack of functions, their variables, and the values to which they refer is called a traceback?

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question **45**

Not answered

Marked out of 1.00

A loop where the terminating condition is never achieved is called an _____

Select one:

- ☐ a. infinite loop
- ☐ b. universal loop
- ☐ c. while loop
- ☐ d. for .. ever loop

The correct answer is: infinite loop

Question 46

Not answered

Marked out of 1.00

What will the output of the following code be?

```
def recursive( depth ):
    depth+=1
    while (depth < 5):
        ret = recursive(depth)
    return depth

ret = recursive( 0 )
print ("the recursive depth is ", ret)
```

Select one:

- ☐ a. the recursive depth is 5
- ☐ b. the recursive depth is 4
- ☐ c. Error due to depth of recursive calls
- ☐ d. No output

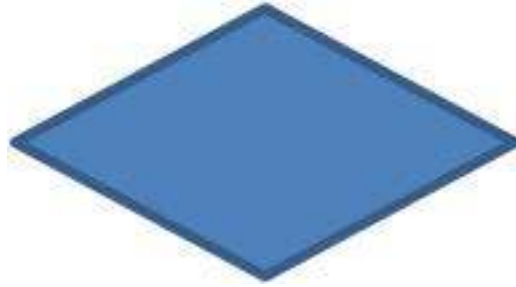
The correct answer is: No output

Question **47**

Not answered

Marked out of 1.00

What does the following symbol mean when used in a flowchart?



Select one:

- ☐ a. Decision
- ☐ b. Input/output
- ☐ c. Process
- ☐ d. Start/End of Process

The correct answer is: Decision

Question 48

Not answered

Marked out of 1.00

What will the output of the following program be?

```
i=0
while (i < max(1, 22-4*5, 3*5-3*4, 2**2)):
    i+= 1
print (i)
```

Select one:

- ☐ a. 0
- ☐ b. 5
- ☐ c. 3
- ☐ d. 4

The correct answer is: 4

Question 49

Not answered

Marked out of 1.00

Expressions evaluate to either true or false. What will the output of the following code be when the expression (Ni!) is evaluated?

```
if "Ni!":  
    print ('We are the Knights who say, "Ni!"')  
else:  
    print ("Stop it! No more of this!")
```

Select one:

- ☐ a. Stop it!
- ☐ b. We are the Knights who say, "Ni!"
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

The correct answer is: We are the Knights who say, "Ni!"

Question 50

Not answered

Marked out of 1.00

The set of modules that are included in the default installation of python are known as the:

Select one:

- ☐ a. Standard Library
- ☐ b. API (Application Programming Interface)
- ☐ c. Module Library
- ☐ d. Python Library

The correct answer is: Standard Library

Question 51

Not answered

Marked out of 1.00

The BASIC language was developed by John G. Kemeny at which school.

Select one:

- ☐ a. Harvard University
- ☐ b. Stanford University
- ☐ c. Dartmouth College
- ☐ d. Carnegie Mellon University

The correct answer is: Dartmouth College

Question 52

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☐ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

The correct answer is: 5 1

Question **53**

Not answered

Marked out of 1.00

To create a new object that has the same value as an existing object is known as creating an alias.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question **54**

Not answered

Marked out of 1.00

Pseudo code is a newer tool and has features that make it more reflective of the structured concepts.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question **55**

Not answered

Marked out of 1.00

What does the following symbol mean when used in a flowchart?



Select one:

- ☐ a. Input/output
- ☐ b. Decision
- ☐ c. Start/End of process
- ☐ d. Sub-routine process

The correct answer is: Input/output

Question 56

Not answered

Marked out of 1.00

What output will the following python command produce:

```
>>> percentage = ( 60 * 100) / 55  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☐ c. 109.0909090909091
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 57

Not answered

Marked out of 1.00

What output will the following code produce?

```
def area(l, w):  
    temp = l * w;  
    return temp
```

```
l = 4.0  
w = 3.25  
x = area(l, w)  
if ( x ):  
    print (x)
```

Select one:

- ☐ a. 13.0
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

The correct answer is: 13.0

Question **58**

Not answered

Marked out of 1.00

A function that returns an integer value grater than 0 is called a boolean function.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question **59**

Not answered

Marked out of 1.00

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☐ a. 5 5 5.000000
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

The correct answer is: 5 5 5.000000

Question **60**

Not answered

Marked out of 1.00

What does the following symbol mean when used in a flowchart?



Select one:

- ☐ a. Start/End of process
- ☐ b. Input/output
- ☐ c. Sub-routine process
- ☐ d. Decision

The correct answer is: Sub-routine process

Question 61

Not answered

Marked out of 1.00

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")  
print(index)
```

Select one:

- ☐ a. 24
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

The correct answer is: 24

Question 62

Not answered

Marked out of 1.00

Using keywords for variable names will result in a _____

Select one:

- ☐ a. runtime error
- ☐ b. compile error
- ☐ c. syntax error
- ☐ d. semantic error

The correct answer is: syntax error

Question 63

Not answered

Marked out of 1.00

The dot operator (.) permits access to attributes and functions of a module (or attributes and methods of a class or instance).

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question **64**

Not answered

Marked out of 1.00

What output will the following statements produce?

```
n = 2  
n += 5  
print(n)
```

Select one:

- ☐ a. 7
- ☐ b. 5
- ☐ c. 0
- ☐ d. None

The correct answer is: 7

Question 65

Not answered

Marked out of 1.00

What output will the following code produce?

```
n = 10
while n != 1:
    print (n,)
    if n % 2 == 0:      # n is even
        n = n // 2
    else:              # n is odd
        n = n * 3 + 1
```

Select one:

- ☐ a. 10 5 16 8 4 2
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

The correct answer is: 10 5 16 8 4 2

Question 66

Not answered

Marked out of 1.00

Match concepts with their definition.

A general process for solving a category of problems.

Choose...

An error in a program.

Choose...

An intermediate language between source code and object code.

To translate a program written in a high-level language into a low-level language all at once, in preparation for later execution.

The process of finding and removing any of the three kinds of programming errors.

Another name for a runtime error.

Another name for object code that is ready to be executed.

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

A programming language like Python that is designed to be easy for humans to read and write.

To execute a program in a high-level language by translating it one line at a time.

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

Any one of the languages that people speak that evolved naturally.

The output of the compiler after it translates the program.

To examine a program and analyze the syntactic structure.

A property of a program that can run on more than one kind of computer.

An instruction that causes the Python interpreter to display a value on the screen.

The process of formulating a problem, finding a solution, and expressing the solution.

a sequence of instructions that specifies to a computer actions and computations to be performed.

An interactive user interface to the Python interpreter.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

Choose...

A program stored in a file (usually one that will be interpreted).

Choose...

Choose...

An error in a program that makes it do something other than what the programmer intended.

Choose...

The meaning of a program.

Choose...

A program in a high-level language before being compiled.

Choose...

The structure of a program.

Choose...

The correct answer is: A general process for solving a category of problems. → algorithm, An error in a program. → bug, An intermediate language between source code and object code. → bytecode, To translate a program written in a high-level language into a low-level language all at once, in preparation for later execution. → compile, The process of finding and removing any of the three kinds of programming errors. → debugging, Another name for a runtime error. → exception, Another name for object code that is ready to be executed. → executable, Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, A programming language like Python that is designed to be easy for humans to read and write. → high-level language, To execute a program in a high-level language by translating it one line at a time. → interpret, A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language. → low-level language, Any one of the languages that people speak that evolved naturally. → natural language, The output of the compiler after it translates the program. → object code, To examine a program and analyze the syntactic structure. → parse, A property of a program that can run on more than one kind of computer. → portability, An instruction that causes the Python interpreter to display a value on the screen. → print statement, The process of formulating a problem, finding a solution, and expressing the solution. → problem solving, a sequence of instructions that specifies to a computer actions and computations to be performed. → program, An interactive user interface to the

Python interpreter. → Python shell, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, A program stored in a file (usually one that will be interpreted). → script, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, A program in a high-level language before being compiled. → source code, The structure of a program. → syntax

Question **67**

Not answered

Marked out of 1.00

Which of the following is NOT a valid mode that can be used to open a file when using the 'open' statement?

Select one:

- ☐ a. r (read)
- ☐ b. w (write)
- ☐ c. a (append)
- ☐ d. x (eXecute)

The correct answer is: x (eXecute)

Question **68**

Not answered

Marked out of 1.00

Variable names are not case sensitive.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

Question 69

Not answered

Marked out of 1.00

What does function subroutine do?

```
def subroutine(n):  
    while n > 0:  
        print (n,)   
        n -= 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☐ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

The correct answer is: Counts from n down to 1 and displays each number

Question 70

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1

The correct answer is: 1 is less than 2

Question 71

Not answered

Marked out of 1.00

Given the following code what will the output be?

```
def find(strng, ch):  
    index = 0  
    while index < len(strng):  
        if strng[index] == ch:  
            return index  
        index += 1  
    return -1  
  
print (find("the doctor is in", '*'))
```

Select one:

- ☐ a. -1
- ☐ b. 0
- ☐ c. 12
- ☐ d. 13

The correct answer is: -1

Question 72

Not answered

Marked out of 1.00

What output will the following python command produce:

```
>>> print (1,000,000)
```

Select one:

- ☐ a.
- ☐ b. 1,000,000
- ☐ c. 1 0 0
- ☐ d. Error invalid type

The correct answer is: 1 0 0

Question 73

Not answered

Marked out of 1.00

A program is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 74

Match concepts with their definition!

A statement that assigns a value to a name (variable).

Choose...

Information in a program that is meant for other programmers (or anyone reading the source code) and has no effect on the execution of the program.

Choose...

The ability to combine simple expressions and statements into compound statements and expressions in order to represent complex computations concisely.

Choose...

To join two strings end-to-end.

Choose...

A set of values.

Choose...

To simplify an expression by performing the operations in order to yield a single value.

Choose...

A combination of variables, operators, and values that represents a single result value.

Choose...

A Python data type which stores floating-point numbers.

Choose...

A Python data type that holds positive and negative whole numbers.

Choose...

An operation that divides one integer by another and yields an integer.

Choose...

A reserved word that is used by the compiler to parse programs.

Choose...

One of the values on which an operator operates.

Choose...

A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

Choose...

The set of rules governing the order in which expressions involving multiple operators and operands are evaluated.

Choose...

An instruction that the Python interpreter can execute.

Choose...

A Python data type that holds a string of characters.

Choose...

A number or string (or other things to be named later) that can be stored in a variable or computed in an expression.

Choose...

A name that refers to a value.

Choose...

A name given to a variable.

Choose...

The correct answer is: A statement that assigns a value to a name (variable). → assignment statement, Information in a program that is meant for other programmers (or anyone reading the source code) and has no effect on the execution of the program. → comment, The ability to combine simple expressions and statements into compound statements and expressions in order to represent complex computations concisely. → composition, To join two strings end-to-end. → concatenate, A set of values. → data type, To simplify an expression by performing the operations in order to yield a single value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A Python data type which stores floating-point numbers. → float, A Python data type that holds positive and negative whole numbers. → int, An operation that divides one integer by another and yields an integer. → integer division, A reserved word that is used by the compiler to parse programs. → keyword, One of the values on which an operator operates. → operand, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, The set of rules governing the order in which expressions involving multiple operators and operands are evaluated. → rules of precedence, An instruction that the Python interpreter can execute. → statement, A Python data type that holds a string of characters. → str, A number or string (or other things to be named later) that can be stored in a variable or computed in an expression. → value, A name that refers to a value. → variable, A name given to a variable. → variable name

Question 75

Not answered

Marked out of 1.00

: A parameter written in a function header with an assignment to a default value which it will receive if no corresponding argument is given for it in the function call is called an optional parameter.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 76

Not answered

Marked out of 1.00

: The following code:

```
for fruit in ["banana", "apple", "quince"]  
    print (fruit)
```

will produce the following output:

```
banana  
apple  
quince
```

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 77

Not answered

Marked out of 1.00

An advantage of Pseudo code is that it requires no special tools and can easily be written on a word processor.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question 78

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n // 10

print (count)
```

Select one:

- ☐ a. 5
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question 79

Not answered

Marked out of 1.00

What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

The correct answer is: 3

Question 80

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
>>> n = 17  
>>> print (n)
```

Select one:

- ☐ a.
- ☐ b. 17.0
- ☐ c. n
- ☐ d. 17

The correct answer is: 17



CS 1101 Self-Quiz Unit 2

Online Education Strategy (University of the People)



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Self-Quiz Unit 2

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

An expression is a combination of values, variables, and operators. If you type an expression on the command line, the interpreter evaluates it and displays the result.

Select one:

☒ True

☐ False

Feedback

The correct answer is 'True'.

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

☐ True

☒ False

Feedback

The correct answer is 'False'.

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A script usually contains a sequence of statements. If there is more than one statement, the results appear one at a time as the statements execute.

Select one:

☒ True

☐ False

Feedback

The correct answer is 'True'.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In Python, the '+' operator can be used with numbers and with strings. What is a property that number addition has, but string concatenation **does not**?

Select one:

- ☐ a. numeric addition is allowed on right-hand side of assignment statement
- ☐ b. more than one numeric addition per expression is allowed
- ☒ c. expression value does not depend on the order of numeric addition operands
- ☐ d. numeric addition is fast to execute
- ☐ e. numeric addition needs 2 operands

Feedback

Your answer is correct.

The correct answer is: expression value does not depend on the order of numeric addition operands

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. (n)
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17

Feedback

The correct answer is: 17

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match concepts with their definition!

A statement that creates a new variable and gives it a value.

Information in a program that is meant for other programmers (or anyone reading the source code) and has no effect on the execution of the program.

Answer 1

assignment statement

Answer 2

The ability to combine simple expressions and statements into compound statements and expressions in order to represent complex computations concisely.

Answer 3

composition

To join two operands end-to-end.

Answer 4

concatenate

What the Python interpreter does to an expression to find its value.

Answer 5

evaluate

A combination of variables, operators, and values that represents a single result value.

Answer 6

expression

A Python data type that stores floating-point numbers.

Answer 7

float

A Python data type that holds positive and negative whole numbers.

Answer 8

int

A reserved word that is used by the interpreter to parse programs.

Answer 9

keyword

One of the values on which an operator operates.

Answer 10

operand

A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

Answer 11

operator

A unit of code that the Python interpreter can execute.

Answer 12

statement

A Python data type that holds a string of characters.

Answer 13

A number or letter that can be stored in a variable or evaluated in an expression.

A name that refers to a value.

str

Answer 14

value

Answer 15

variable

Feedback

The correct answer is:

A statement that creates a new variable and gives it a value. → assignment statement,

Information in a program that is meant for other programmers (or anyone reading the source code) and has no effect on the execution of the program. → comment,

The ability to combine simple expressions and statements into compound statements and expressions in order to represent complex computations concisely. → composition,

To join two operands end-to-end. → concatenate,

What the Python interpreter does to an expression to find its value. → evaluate,

A combination of variables, operators, and values that represents a single result value. → expression,

A Python data type that stores floating-point numbers. → float,

A Python data type that holds positive and negative whole numbers. → int,

A reserved word that is used by the interpreter to parse programs. → keyword,

One of the values on which an operator operates. → operand,

A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator,

A unit of code that the Python interpreter can execute. → statement,

A Python data type that holds a string of characters. → str,

A number or letter that can be stored in a variable or evaluated in an expression. → value,

A name that refers to a value. → variable

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following Python statement produce?

```
>>> print ((1,000,000))
```

Select one:

- ☐ a. 1,000
- ☐ b. 1,000,000
- ☒ c. (1, 0, 0)

- ☐ d. Error invalid type

Feedback

The correct answer is: (1, 0, 0)

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A **program** is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☒ True

- ☐ False

Feedback

The correct answer is 'True'.

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The * operator also works on strings for which it performs repetition.

Select one:

☒ True

☐ False

Feedback

The correct answer is 'True'.

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

☒ a. 3

☐ b. 3.0

☐ c. 3.14159

☐ d. 0

Feedback

The correct answer is: 3



CS1101 Selfquiz unit 3

Programming Fundamentals (University of the People)



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C1101 Self-Quiz Unit 3

Question 1

What output will the following python command produce:

```
>>> percentage = float ( 60 * 100) / 55
```

```
>>> print (percentage)
```

Select one:

a. percentage

b. 109

c. 109.0909090909091

d. 109.0

Question 2

Occasionally, it is useful to have a body of an if statement that does nothing. In that case, you can use the following statement:

Select one:

a. # do nothing

b. 0 = 0

c. Null

Occasionally, it is useful to have a body of an if statement that does nothing. In that case,

you can use the following statement:

Select one:

a. # do nothing

b. 0 = 0

c. Null

d. pass

e. Void

.

Question 3

Match the following terms and definitions

The order in which statements are executed during a program run.

Answer flow of execution

The first part of a compound statement, begins with a keyword and ends with a colon (:)

Answer header

A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses.

Answer function call

A variable defined inside a function that can only be used inside its function.

Answer local variable

A graphical representation of functions, their variables, and the values to which they refer.

Answer stack diagram

Question 4

True/False: The % or modulus operator returns the remainder present when two integers do not divide evenly into one another

Select one:

True

False

Question 5

What is the output of the following Python statements?

```
def recurse(a):
```

```
    if (a == 0):
```

```
        print(a)
```

```
    else:
```

```
        recurse(a)
```

```
recurse(0)
```

Select one:

a. 0

b. 1

c. no output

d. RuntimeError: maximum recursion depth exceeded

Question 6

What is the output of the following Python statements?

```
x = 5
```

```
if x % 2 == 1:
```

```
    print (x)
```

```
else:
```

```
print (x, x%2)
```

Select one:

a. 5

b. (5, 1)

c. 2

d. (5, 0)

Question 7

What output will the following python commands produce

```
:x = 5
```

```
if x % 2 == 0:
```

```
    print (x)
```

```
else:
```

```
    print (x, x%2)
```

Select one:

a. 5

b. 5 1

c. 2

d. 5 0

Question 8

Functions allow the programmer to encapsulate and generalize sections of code.

Select one:

True

False

Question 9

If you assign the result a void function to a variable in Python, you get:

Select one:

- a. an empty string
- b. the value -1
- c. the value 0
- d. the special value None

Question 10

What is the output of the following Python statements?

```
def recurse(a):
```

```
    if (a == 0):
```

```
        print(a)
```

```
    else:
```

```
        recurse(a)
```

```
recurse(1)
```

Select one:

- a. 0
- b. 1
- c. no output
- d. RuntimeError: maximum recursion depth exceeded



CS 1101 Self-Quiz Unit 3

Online Education Strategy (University of the People)



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Self-Quiz Unit 3

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Match the following terms and definitions

The order in which statements are executed during a program run.

The first part of a compound statement, begins with a keyword and ends with a colon (:)

A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses.

A variable defined inside a function that can only be used inside its function.

A graphical representation of functions, their variables, and the values to which they refer.

Answer 1	<input type="text" value="flow of execution"/>
Answer 2	<input type="text" value="header"/>
Answer 3	<input type="text" value="function call"/>
Answer 4	<input type="text" value="local variable"/>
Answer 5	<input type="text" value="stack diagram"/>

Feedback

The correct answer is:

The order in which statements are executed during a program run. → flow of execution,

The first part of a compound statement, begins with a keyword and ends with a colon (:) → header,

A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses. → function call,

A variable defined inside a function that can only be used inside its function. → local variable,

A graphical representation of functions, their variables, and the values to which they refer. → stack diagram

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python command produce:

```
>>> percentage = float ( 60 * 100) / 55  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091
- ☐ d. 109.0

Feedback

The correct answer is: 109.0909090909091

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following Python statements?

```
pi = int(3.14159)  
print (pi)
```

Select one:

- ☒ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Feedback

Your answer is correct.

The correct answer is: 3

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

True/False: The % or modulus operator returns the remainder present when two integers do not divide evenly into one another

Select one:



True



False

Feedback

The correct answer is 'True'.

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:



a. 5

☒ b. 5 1

☐ c. 2

☐ d. 5 0

Feedback

The correct answer is: 5 1

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

How many different values can a Boolean expression have?

Select one:

☐ a. 3

☒ b. 2

☐ c. infinite number

☐ d. 1

☐ e. not defined

Feedback

Your answer is correct.

The correct answer is: 2

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Expressions evaluate to either true or false. What will the output of the following code be when the expression "Ni!" is evaluated?

```
if "Ni!":  
    print ("We are the Knights who say, "Ni!")  
else:  
    print ("Stop it! No more of this!")
```

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!"
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

Feedback

The correct answer is: We are the Knights who say, "Ni!"

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is the output of the following statements?

```
pi = int(3.14159)  
print (pi)
```

Select one:

- ☒ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Feedback

The correct answer is: 3

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None
- ☐ e. an exception

Feedback

Your answer is correct.

The correct answer is: the special value None

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Question text

One way to generalize a function is to replace a variable with a value.

Select one:

- ☐ True
- ☒ False

Feedback

The correct answer is 'False'.



CS 1101 Self-Quiz Unit 3 Attempt review-1

Programming Fundamentals (University of the People)



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Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

How many different values can a Boolean expression have?

Select one:

- ☐ a. 3
- ☒ b. 2 ✓
- ☐ c. infinite number
- ☐ d. 1
- ☐ e. not defined

Your answer is correct.



Question **2**

Correct

Mark 1.00 out of 1.00

What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print(x, "and", y, "are equal")
else:
    if x < y:
        print(x, "is less than", y)
    else:
        print(x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☒ b. 1 is less than 2 ✓
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1

Question **3**

Correct

Mark 1.00 out of 1.00

Match the following terms and definitions

The order in which statements are executed during a program run.

flow of execution



The first part of a compound statement, begins with a keyword and ends with a colon (:)

header



A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses.

function call



A variable defined inside a function that can only be used inside its function.

local variable



A graphical representation of functions, their variables, and the values to which they refer.

stack diagram



Question **4**

Correct

Mark 1.00 out of 1.00

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

Question **5**

Correct

Mark 1.00 out of 1.00

One way to generalize a function is to replace a variable with a value.

Select one:

- ☐ True
- ☒ False ✓



Question **6**

Correct

Mark 1.00 out of 1.00

Expressions evaluate to either true or false. What will the output of the following code be when the expression "Ni!" is evaluated?

if "Ni!":

print ('We are the Knights who say, "Ni!"')

else:

print ("Stop it! No more of this!")

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!" ✓
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

Question **7**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
percentage = ( 60 * 100) // 55
```

```
print (percentage)
```

Select one:

- ☐ a. percentage
- ☒ b. 109 ✓
- ☐ c. 109.0909090909091
- ☐ d. 109.0

Your answer is correct.



Question **8**

Correct

Mark 1.00 out of 1.00

Functions allow the programmer to encapsulate and generalize sections of code.

Select one:

- ☒ True ✓
- ☐ False

Question **9**

Correct

Mark 1.00 out of 1.00

True/False: The % or modulus operator returns the remainder present when two integers do not divide evenly into one another

Select one:

- ☒ True ✓
- ☐ False



Question **10**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☒ d. RuntimeError: maximum recursion depth exceeded ✓

Your answer is correct.

◀ Learning Journal Unit 3

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Graded Quiz Unit 3 ▶





CS 1101 Unit 1 practice quizz

Programming Fundamentals (University of the People)



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Which one of the following Python expressions generates a syntax error?

Select one:

☐

a.
8 ^ 2

☐

b.
8 ** 2

☐

c.
8 +- 2

☒

d.
8 += 2

☐

e.
8 -+ 2

Feedback

Your answer is correct.

The correct answer is: 8 += 2

Question **2**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

Which of the following is **not** a valid Python numeric literal:

Select one:

☐

a.
123

☒

b.
0123

☐

c.
0.00

☐

d.
12.3



e.
0.75

Feedback

Your answer is correct.

The correct answer is: 0123

Question 3

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

string is a Python type that represents sequences of numeric values.

Select one:



True



False

Feedback

The correct answer is 'False'.

Question 4

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "4" called?

Select one:



a.
a function



b.
an operator



c.
a prompt



d.

a statement



e.

a value

Feedback

Your answer is correct.

The correct answer is: a value

Question **5**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

Programming languages are _____ languages that have been designed to express computations.

Select one:



a.

informal



b.

mathematical



c.

formal



d.

natural



e.

logical

Feedback

Your answer is correct.

The correct answer is: formal

Question **6**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

Match concepts with their definition!

An error in a program.

Answer 1

bug

The process of finding and removing any of the three kinds of programming errors.

Answer 2

debugging

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are these kinds of languages.

Answer 3

formal language

A programming language like Python that is designed to be easy for humans to read and write.

Answer 4

high-level language

A program that reads another program and executes it.

Answer 5

interpreter

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

Answer 6

low-level language

Any one of the languages that people speak that evolved naturally.

Answer 7

natural language

To examine a program and analyze the syntactic structure.

Answer 8

parse

A property of a program that can run on more than one kind of computer.

Answer 9

portability

An instruction that causes the Python interpreter to display a value on the screen.

Answer 10

print statement

The process of formulating a problem, finding a solution, and expressing the solution.

Answer 11

problem solving

A sequence of instructions that specifies to a computer actions and computations to be performed.

Answer 12

program

A program stored in a file (usually one that will be interpreted).

Answer 13

script

The structure of a program.

Answer 14

syntax

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 15

token

Feedback

The correct answer is: An error in a program. → bug, The process of finding and removing any of the three kinds of programming errors. → debugging, Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are these kinds of languages. → formal language, A programming language like Python that is designed to be easy for humans to

read and write. → high-level language, A program that reads another program and executes it. → interpreter, A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language. → low-level language, Any one of the languages that people speak that evolved naturally. → natural language, To examine a program and analyze the syntactic structure. → parse, A property of a program that can run on more than one kind of computer. → portability, An instruction that causes the Python interpreter to display a value on the screen. → print statement, The process of formulating a problem, finding a solution, and expressing the solution. → problem solving, A sequence of instructions that specifies to a computer actions and computations to be performed. → program, A program stored in a file (usually one that will be interpreted). → script, The structure of a program. → syntax, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question **7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is python's response to the command: `type("0.123")`

Select one:

☐

a.

`<class 'float'>`

☐

b.

`<class 'bool'>`

☐

c.

`SyntaxError: invalid syntax`

☐

d.

`<class 'int'>`

☒

e.

`<class 'str'>`

Feedback

Your answer is correct.

The correct answer is: `<class 'str'>`

Question **8**

Correct
Mark 1.00 out of 1.00
[Flag question](#)

Question text

What is Python's response to the command: `type(123)`

Select one:

☐

a.
`<class 'float'>`

☐

b.
`<class 'bool'>`

☐

c.
SyntaxError: invalid syntax

☒

d.
`<class 'int'>`

☐

e.
`<class 'str'>`

Feedback

Your answer is correct.

The correct answer is: `<class 'int'>`

Question 9

Correct
Mark 1.00 out of 1.00
[Flag question](#)

Question text

Which one of the following Python expressions has the value 64?

Select one:

☐

a.
`8 ^ 2`

☒

b.
`8 ** 2`

☐

c.

8 +- 2



d.

8 += 2



e.

8 -+ 2

Feedback

Your answer is correct.

The correct answer is: 8 ** 2

Question **10**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Question text

Which one of the following Python expressions computes the total number of seconds in 21 minutes and 21 seconds?

Select one:



a.

21 + 21



b.

21 + 60



c.

"21 minutes" + "21 seconds"



d.

21 * 60 + 21



e.

seconds = 21 + "21 minutes"

Feedback

Your answer is correct.

The correct answer is: 21 * 60 + 21



Final Exam (page 2 of 4) Home

Principles of Business Management (University of the People)



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Question 11

Not yet answered

Marked out of 1.00

Using a matrix structure will help to balance the benefits of product-based and traditional functional structures.

- ☒ a. True
☐ b. False

[Clear my choice](#)**Question 12**

Not yet answered

Marked out of 1.00

The mission statement provides a bridge between the organization's vision and strategies.

- ☒ a. True
☐ b. False

[Clear my choice](#)**Question 13**

Not yet answered

Marked out of 1.00

The following are basic functions of goals and objectives except:

- ☒ a. Unaligned efforts
☐ b. Report on performances
☐ c. Improve performances
☐ d. Manage accountabilities

[Clear my choice](#)

Question 14

Not yet answered

Marked out of 1.00

Businesses should remove those managers and other powerful employees who act as a barrier to change.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)**Question 15**

Not yet answered

Marked out of 1.00

Interpersonal conflicts are very common in matrix organizational structures.

- ☒ a. True
- ☐ b. False

[Clear my choice](#)**Question 16**

Not yet answered

Marked out of 1.00

Goals and objectives play an important role only in the planning stage.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)**Question 17**

Not yet answered

Marked out of 1.00

The absence of a lengthy employee handbook or detailed procedures always means that the company is less flexible and highly bureaucratic.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question 18

Not yet answered

Marked out of 1.00

Which step in the principles of management framework is concerned with ensuring that everyone in the organization clearly understands the mission and vision statements?

- ☐ a. Leading
- ☐ b. Planning
- ☐ c. Controlling
- ☒ d. Organizing

[Clear my choice](#)**Question 19**

Not yet answered

Marked out of 1.00

The following refers to superiority in competitive advantage, except:

- ☐ a. Low cost
- ☒ b. Customer service
- ☐ c. Product quality
- ☐ d. Unique style

[Clear my choice](#)**Question 20**

Not yet answered

Marked out of 1.00

People tend to be more welcoming of the changes that are more favorable to them on a personal level.

- ☒ a. True
- ☐ b. False

[Clear my choice](#)



Graded Quiz Unit 6 Attempt review

Programming 1 (University of the People)



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[Dashboard](#) / [My courses](#) / [CS 1102-01 - AY2022-T3](#) / 3 March - 9 March / [Graded Quiz Unit 6](#)**Started on** Wednesday, 9 March 2022, 5:44 AM**State** Finished**Completed on** Wednesday, 9 March 2022, 6:15 AM**Time taken** 31 mins 7 secs**Marks** 11.00/20.00**Grade** 55.00 out of 100.00Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
public class Food {
    static int count;
    private String flavor = "sweet";
    Food() { count++; }
    void setFlavor(String s) { s = flavor; }
    String getFlavor() { return flavor; }
    static public void main(String[] args) {
        Food pepper = new Food();
        pepper.setFlavor("spicy");
        System.out.println(pepper.getFlavor());
    }
}
```

Select one:

- ☒ a. sweet
- ☐ b. spicy
- ☐ c. 1
- ☐ d. 2
- ☐ e. The program does not compile.



Your answer is correct.

This program has a sneaky bug. Notice that the so-called setter "setFlavor" sets its formal parameter "s" to the instance variable "flavor" instead of the other way around. The value of "flavor" does not change from its initial value of "sweet". See Section 5.1.3 of Eck (2014).

The correct answer is: sweet

Question 2

Incorrect

Mark 0.00 out of 1.00

Consider the following Java program, which one of the following best describes "pepper"?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food() { count++; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food();  
        System.out.println(pepper.getFlavor());  
    }  
}
```

Select one:

- ☐ a. a constructor
- ☒ b. an instance variable
- ☐ c. a local object variable
- ☐ d. a class variable
- ☐ e. a method



Your answer is incorrect.

See Section 5.1.2 of Eck (2014).

The correct answer is: a local object variable

Question 3

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Java program?

```
class Food {  
    Food() { System.out.println(flavor); }  
    String flavor = "bland";  
}  
class Pepper extends Food {  
    String flavor = "spicy";  
}  
public class Lunch {  
    public static void main(String[] args) {  
        Food lunch = new Pepper();  
    }  
}
```

Select one:

- ☐ a. no output
- ☐ b. bland
- ☐ c. the program does not compile
- ☒ d. bland
spicy
- ☐ e. spicy

✖

Your answer is incorrect.

Unlike methods, constructors are NOT polymorphic. The compiler automatically calls the "Food" constructor, which uses the "flavor" member for class "Food", not the one for the subclass "Pepper". See Sections 5.6.2 and 5.6.3.

The correct answer is: bland

Question 4

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
interface Food {  
    public void printFlavor();  
}  
class Pepper implements Food {  
    public void printFlavor() { System.out.println("spicy"); }  
}  
public class Lunch {  
    public static void main(String[] args) {  
        Food pepper = new Pepper();  
        pepper.printFlavor();  
    }  
}
```

Select one:

- ☐ a. no output
- ☐ b. bland
- ☒ c. spicy
- ☐ d. the program does not compile
- ☐ e. bland
spicy



Your answer is correct.

The "Pepper" class implements the "Food" interface. In particular, it defines the "printFlavor" method, which prints "spicy". See Section 5.7.1.

The correct answer is: spicy

Question 5

Correct

Mark 1.00 out of 1.00

Consider the following Java program, which one of the following best describes "flavor"?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food() { count++; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food();  
        System.out.println(pepper.getFlavor());  
    }  
}
```

Select one:

- ☐ a. a constructor
- ☐ b. a local object variable
- ☒ c. an instance variable
- ☐ d. a method
- ☐ e. a class variable



Your answer is correct.

See Section 5.1.1 of Eck (2014).

The correct answer is: an instance variable

Question 6

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
abstract class Food {  
    void printFlavor() {}  
}  
class Pepper extends Food {}  
public class Lunch {  
    public static void main(String[] args) {  
        Food lunch = new Pepper();  
        lunch.printFlavor();  
    }  
}
```

Select one:

- ☐ a. bland
- ☐ b. spicy
- ☐ c. bland
spicy
- ☐ d. the program does not compile
- ☒ e. no output



Your answer is correct.

The "Pepper" class inherits the "printFlavor" method from the abstract "Food" class. Abstract classes are allowed to define concrete methods, and "Food" does define "printFlavor", though it defines it to do nothing: "{}". See Section 5.5.5.

The correct answer is: no output

Question 7

Correct

Mark 1.00 out of 1.00

A subclass method can ____ a superclass method with the same name and parameter types.

Select one:

- ☒ a. override
- ☐ b. implement
- ☐ c. extend
- ☐ d. abstract
- ☐ e. inherit



Your answer is correct.

See Section 5.6.2.

The correct answer is: override

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
class Food {  
    void flavor() { System.out.println("bland"); }  
}  
class Pepper extends Food {  
    void flavor() { System.out.println("spicy"); }  
}  
public class Lunch {  
    public static void main(String[] args) {  
        Pepper lunch = new Food();  
        lunch.flavor();  
    }  
}
```

Select one:

- ☐ a. no output
- ☐ b. spicy
- ☐ c. bland
spicy
- ☒ d. the program does not compile
- ☐ e. bland



Your answer is correct.

The program tries to initialize "lunch", a variable of type "Pepper", with an object of type "Food". A superclass variable can be initialized to a subclass object, but not the other way around. See Section 5.5.3.

The correct answer is: the program does not compile

Question 9

Incorrect

Mark 0.00 out of 1.00

Considering the following Java sample program, what are the "x" and "y" values?

```
public void mouseDragged(MouseEvent evt) {  
    if ( dragging == false )  
        return;  
    int x = evt.getX();  
    int y = evt.getY();  
    .  
    . . .  
    prevX = x;  
    prevY = y;  
}
```

- ☐ a. Position of Mouse after dragging
- ☒ b. Position of Mouse during the drag
- ☐ c. Current position of Mouse
- ☐ d. Position of Mouse when clicking
- ☐ e. Next position of Mouse

✗

Your answer is incorrect.

See Section 6.3.3

The correct answer is:

Current position of Mouse

Question **10**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Java program?

```
class Food {  
    String flavor = "bland";  
    void printFlavor() { System.out.println(flavor); }  
}  
class Pepper extends Food {  
    String flavor = "spicy";  
}  
public class Lunch {  
    public static void main(String[] args) {  
        Food lunch = new Pepper();  
        lunch.printFlavor();  
    }  
}
```

Select one:

- ☐ a. the program does not compile
- ☐ b. bland
- ☐ c. bland
spicy
- ☒ d. spicy
- ☐ e. no output



Your answer is incorrect.

The "Pepper" class inherits the "printFlavor" method but does not override it. Because member variables are NOT polymorphic, the "printFlavor" method defined in "Food" sees the member variable "flavor" in "Food", not the one in "Pepper". See Sections 5.6.1 and 5.6.2.

The correct answer is: bland

Question **11**

Correct

Mark 1.00 out of 1.00

Consider the following Java program, which one of the following best describes "setFlavor"?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food() { count++; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food();  
        System.out.println(pepper.getFlavor());  
    }  
}
```

Select one:

- ☐ a. a class method
- ☐ b. gets executed when the program runs
- ☐ c. a static method
- ☒ d. a setter method
- ☐ e. a public method



Your answer is correct.

See Section 5.1.3 of Eck (2014).

The correct answer is: a setter method

Question **12**

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food(String s) { flavor = s; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food("spicy");  
        Food chile = pepper;  
        pepper.setFlavor("smoky");  
        System.out.println(chile.getFlavor());  
    }  
}
```

Select one:

- ☐ a. sweet
- ☐ b. spicy
- ☒ c. smoky
- ☐ d. true
- ☐ e. false



Your answer is correct.

Setting "chile = pepper" causes the two object variables to refer to the same single object. Because "chile" and "pepper" refer to the same object, the flavor set by "pepper.setFlavor" is seen by "chile.getFlavor". See Section 5.1.2 of Eck (2014).

The correct answer is: smoky

Question **13**

Correct

Mark 1.00 out of 1.00

An object that registers listener objects does which of the following?

Select one:

- ☐ a. It maintains an object directory.
- ☐ b. It records audio.
- ☒ c. It generates events.
- ☐ d. It handles events.
- ☐ e. It runs an event loop.



Your answer is correct.

See Section 6.3.1.

The correct answer is: It generates events.

Question **14**

Correct

Mark 1.00 out of 1.00

What is the output of the following Java program?

```
class Food {
    String flavor = "bland";
}
class Pepper extends Food {
    String flavor = "spicy";
}
public class Lunch {
    public static void main(String[] args) {
        Food lunch = new Pepper();
        System.out.println(lunch.flavor);
    }
}
```

Select one:

- ☐ a. the program does not compile
- ☐ b. bland
spicy
- ☐ c. no output
- ☐ d. spicy
- ☒ e. bland



Your answer is correct.

A variable of type "Food" sees the member "flavor" from the "Food" class, even though the object also has a member "flavor" from the "Pepper" class. Methods are polymorphic, but member variables are not. See Sections 5.5.3 and 5.6.2.

The correct answer is: bland

Question **15**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Java program?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food(String s) { flavor = s; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food("spicy");  
        System.out.println(pepper.getFlavor());  
    }  
}
```

Select one:

- ☐ a. spicy
- ☐ b. 1
- ☐ c. 2
- ☒ d. The program does not compile.
- ☐ e. sweet



Your answer is incorrect.

See Sections 5.1.3 and 5.2.2 of Eck (2014).

The correct answer is: spicy

Question **16**

Correct

Mark 1.00 out of 1.00

Which of the following is used to interact with GUI components?

- ☐ a. Mouse
- ☐ b. Keyboard
- ☐ c. Mouse and keyboard
- ☐ d. Other input devices
- ☒ e. All above are correct



Your answer is correct.

See section 6.1.1

The correct answer is:

All above are correct

Question **17**

Incorrect

Mark 0.00 out of 1.00

What is the JavaFX application thread?

- ☒ a. JavaFX application thread is a virtual thread to control GUI applications.
- ☐ b. When the main() routine is executed, the launch() method creates a new thread, called the JavaFX application thread
- ☐ c. JavaFX application thread is used for running Java applications.
- ☐ d. When the main() routine is executed, the JavaFX application thread can invoke
- ☐ e. JavaFX application thread is one of the GUI library components



Your answer is incorrect.

See Section 6.1.1

The correct answer is:

When the main() routine is executed, the launch() method creates a new thread, called the JavaFX application thread

Question **18**

Incorrect

Mark 0.00 out of 1.00

A subclass will ____ from its superclass.

Select one:

- ☒ a. extend
- ☐ b. implement
- ☐ c. override
- ☐ d. inherit
- ☐ e. abstract



Your answer is incorrect.

See Section 5.5.2.

The correct answer is: inherit

Question **19**

Incorrect

Mark 0.00 out of 1.00

Consider the following Java program, which one of the following best describes "main"?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food() { count++; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food();  
        System.out.println(pepper.getFlavor());  
    }  
}
```

Select one:

- ☐ a. a setter method
- ☐ b. a public method
- ☒ c. a static method
- ☐ d. gets executed when the program runs
- ☐ e. a class method



Your answer is incorrect.

The correct answer is: gets executed when the program runs

Question **20**

Incorrect

Mark 0.00 out of 1.00

What is the output of the following Java program?

```
public class Food {  
    static int count;  
    private String flavor = "sweet";  
    Food() { count++; }  
    void setFlavor(String s) { flavor = s; }  
    String getFlavor() { return flavor; }  
    static public void main(String[] args) {  
        Food pepper = new Food();  
        new Food();  
        System.out.println(pepper.count);  
    }  
}
```

Select one:

- ☐ a. The program does not compile.
- ☒ b. 1
- ☐ c. 2
- ☐ d. spicy
- ☐ e. sweet



Your answer is incorrect.

The first call to "new Food()" increments the class variable "count". The second call to "new Food()" increments it again, for a value of 2. Notice that you do not have to use the resulting reference from a "new" call. Also notice that objects (like "pepper") have access to the class variables of their class (like "count"). See Sections 5.1.2 and 5.2.2 of Eck (2014).

The correct answers are: 2, The program does not compile.

◀ Self-Quiz Unit 6

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Unit 5 Programming Assignment Solution ▶



Self-Quiz Unit 3 review

Fundamental Programming (University of the People)



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Started on Tuesday, 5 July 2022, 5:19 PM

State Finished

Completed on Tuesday, 5 July 2022, 5:20 PM

Time taken 1 min 18 secs

Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None
- ☐ e. an exception



Your answer is correct.

Question **2**

Correct

Mark 1.00 out of 1.00

How many different values can a Boolean expression have?

Select one:

- ☐ a. 3
- ☒ b. 2
- ☐ c. infinite number
- ☐ d. 1
- ☐ e. not defined



Your answer is correct.

Question **3**

Correct

Mark 1.00 out of 1.00

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159
- ☐ d. 0



Question 4

Correct

Mark 1.00 out of 1.00

Expressions evaluate to either true or false. What will the output of the following code be when the expression "Ni!" is evaluated?

if "Ni!":

 print ('We are the Knights who say, "Ni!"')

else:

 print ("Stop it! No more of this!")

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!"
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced



Question 5

Correct

Mark 1.00 out of 1.00

What output will the following python commands produce:

x = 5

if x % 2 == 0:

 print (x)

else:

 print (x, x%2)

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2
- ☐ d. 5 0



Question **6**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☒ a. 3
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0



Your answer is correct.

Question **7**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
x = 5
if x % 2 == 1:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☒ a. 5
- ☐ b. (5, 1)
- ☐ c. 2
- ☐ d. (5, 0)



Your answer is correct.

Question 8

Correct

Mark 1.00 out of 1.00

What output will the following python command produce:

```
>>> percentage = float ( 60 * 100) / 55  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091
- ☐ d. 109.0



Question 9

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
percentage = ( 60 * 100) // 55  
print (percentage)
```

Select one:

- ☐ a. percentage
- ☒ b. 109
- ☐ c. 109.0909090909091
- ☐ d. 109.0



Your answer is correct.

Question **10**

Correct

Mark 1.00 out of 1.00

What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print(x, "and", y, "are equal")
else:
    if x < y:
        print(x, "is less than", y)
    else:
        print(x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☒ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1



◀ Learning Journal Unit 3

Jump to...

Graded Quiz Unit 3 ▶

Started on	Wednesday, 1 May 2024, 2:36 PM
State	Finished
Completed on	Wednesday, 1 May 2024, 3:03 PM
Time taken	27 mins 31 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 1):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

Question 2

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

To join two operands end-to-end.

concatenate



What the Python interpreter does to an expression to find its value.

evaluate



A combination of variables, operators, and values that represents a single result value.

expression



A reserved word that is used by the interpreter to parse programs.

keyword



A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

operator



A unit of code that the Python interpreter can execute.

statement



A name that refers to a value.

variable



The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is an **invalid** Python assignment statement?

Select one:

- ☐ a. `a = b = 123`
- ☒ b. `'3' = 3` ✓
- ☐ c. `x = int("123")`
- ☐ d. `y = None`
- ☐ e. `z = "hi" * 10`

Your answer is correct.

The correct answer is: `'3' = 3`

Question 4

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print(1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

Question 6

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 7

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question 8

Correct

Mark 1.00 out of 1.00

In Python, the '+' operator can be used with numbers and with strings. What is a property that number addition has, but string concatenation **does not**?

Select one:

- ☐ a. Numeric addition is allowed on right-hand side of assignment statement.
- ☐ b. More than one numeric addition per expression is allowed.
- ☒ c. The expression value does not depend on the order of numeric addition operands. ✓
- ☐ d. Numeric addition is fast to execute.
- ☐ e. Numeric addition needs two operands.

Your answer is correct.

The correct answer is: The expression value does not depend on the order of numeric addition operands.

Question 9

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:

- ☐ a. 6
- ☒ b. 5 ✓
- ☐ c. 4
- ☐ d. 3

The correct answer is: 5

Question 10

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question 11

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 12

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator

Question 14

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "4" called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☒ e. a value ✓

Your answer is correct.

The correct answer is: a value

Question 15

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

Question 16

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 17

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

Question 18

Correct

Mark 1.00 out of 1.00

In Python, the expression `"a**(b**c)"` is the same as `"(a**b)**c"`.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 19

Correct

Mark 1.00 out of 1.00

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Started on Tuesday, 30 April 2024, 5:55 AM**State** Finished**Completed on** Tuesday, 30 April 2024, 6:02 AM**Time taken** 7 mins 6 secs**Marks** 15.00/15.00**Grade** 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Successful students tend to log in and participate in class:

- ☐ a. Once per week
- ☐ b. Twice per week
- ☒ c. At least two to three times per week ✓
- ☐ d. Never

Your answer is correct.

The correct answer is:

At least two to three times per week

Question 2

Correct

Mark 1.00 out of 1.00

Links to the Learning Resource Center (LRC) can be found:

- ☒ a. In the "Resources" drop down menu of Moodle ✓
- ☒ b. In the "Student Toolkit" on the right hand side of Moodle ✓
- ☐ c. In your Textbook
- ☐ d. In your Instructor's Discussion Forum Posts

Your answer is correct.

The correct answers are:

In the "Resources" drop down menu of Moodle,

In the "Student Toolkit" on the right hand side of Moodle

Question 3

Correct

Mark 1.00 out of 1.00

To find the UoPeople code of conduct, students should:

Select one:

- ☒ a. Read the Academic Policies Section of the UoPeople Catalog ✓
- ☐ b. Ask their Academic Advisor
- ☐ c. Ask the course instructor
- ☐ d. Check the syllabus

The correct answer is: Read the Academic Policies Section of the UoPeople Catalog

Question 4

Correct

Mark 1.00 out of 1.00

The course catalog has a lot of very important information in it, and is basically a student's guide to the University. Where can students find a copy of the course catalog to save and refer to regularly?

Select one:

- ☐ a. They should ask their Academic Advisor to email them a copy of the course catalog.
- ☐ b. They should find it in one of their textbooks.
- ☒ c. They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page. ✓
- ☐ d. All of the above.

The correct answer is: They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page.

Question 5

Correct

Mark 1.00 out of 1.00

A list of courses in each degree program can be found in

- ☒ a. The University Catalog ✓
- ☐ b. Your Course Syllabus
- ☐ c. An Email from your Instructor
- ☐ d. Moodle Messenger

Your answer is correct.

The correct answer is:

The University Catalog

Question 6

Correct

Mark 1.00 out of 1.00

To write a successful discussion post, students should:

Select one:

- ☒ a. Use a writing process similar to writing papers ✓
- ☐ b. Use informal, non-academic language
- ☐ c. Only discuss personal experience with the topic
- ☐ d. Ignore citation rules because it's a discussion

The correct answer is: Use a writing process similar to writing papers

Question 7

Correct

Mark 1.00 out of 1.00

In writing, using all capital letters is considered to be:

Select one:

- ☐ a. Enthusiastic
- ☒ b. Screaming ✓
- ☐ c. Amusing
- ☐ d. Whimsical

The correct answer is: Screaming

Question 8

Correct

Mark 1.00 out of 1.00

In Chapter 2 of *College Success*, we learned about Goal Setting. The reading states that goals should be:

- ☐ a. Easy to achieve, realistic, and have a timeframe
- ☒ b. Realistic, have a timeframe, and specific ✓
- ☐ c. Popular with others, specific, and realistic
- ☐ d. East to achieve, popular, and realistic

Your answer is correct.

The correct answer is:

Realistic, have a timeframe, and specific

Question 9

Correct

Mark 1.00 out of 1.00

Replies to peers' discussion forum posts should be:

- ☐ a. At least 100 words
- ☐ b. Move the discussion forward
- ☐ c. Contain both positive comments and suggestions for improvement
- ☒ d. All of the above ✓

Your answer is correct.

The correct answer is:

All of the above

Question 10

Correct

Mark 1.00 out of 1.00

_____ is a platform that we suggest for UNIV students to connect with other new students

- ☐ a. Facebook
- ☐ b. Instagram
- ☒ c. Yammer ✓
- ☐ d. Whats App

Your answer is correct.

The correct answer is:

Yammer

Question 11

Correct

Mark 1.00 out of 1.00

True or False: The Learning Journal is a document that only you and your Instructor can view

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

According to Chapter one of *College Success*, successful students possess these traits:

- ☐ a. They avoid asking questions of their instructors.
- ☒ b. They develop their writing skills ✓
- ☒ c. They stay motivated ✓
- ☐ d. They eat fast food, so that they have more time for studying.

Your answer is correct.

The correct answers are:

They develop their writing skills,

They stay motivated

Question 13

Correct

Mark 1.00 out of 1.00

True or False: According to Chapter 12 of *College Success*, there is a difference between a career and a job.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 14

Correct

Mark 1.00 out of 1.00

True or False: Discussion posts facilitate discussions similar to on-site class discussions.

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Question 15

Correct

Mark 1.00 out of 1.00

According to Chapter Two of *College Success* some tips for staying motivated include:

- ☒ a. Planning ahead to avoid last minute pressures ✓
- ☒ b. Keeping a positive attitude ✓
- ☒ c. Keeping your eye on long term goals ✓
- ☐ d. Multi-tasking

Your answer is correct.

The correct answers are:

Planning ahead to avoid last minute pressures,

Keeping a positive attitude,

Keeping your eye on long term goals

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Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

In Python, the expression "a**(b**c)" is the same as "(a**b)**c".

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 2

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print ((1+1)**(5-2))
```

Select one:

- ☐ a. 16
- ☒ b. 8 ✓
- ☐ c. 4
- ☐ d. 2

The correct answer is: 8

Question 3

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

Question 4

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = ( 60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 6

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 7

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a **syntax error**?

Select one:

- ☐ a. 2 ^ 2
- ☐ b. 2 ** 2
- ☐ c. 2 +- 2
- ☒ d. 2 += 2 ✓
- ☐ e. 2 -+ 2

Your answer is correct.

The correct answer is: 2 += 2

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 1):  
        print(a)  
    else:  
        recurse(a)  
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

Question 9

Correct

Mark 1.00 out of 1.00

What is the output of the following Python 3 statements?

```
x=2  
y=1  
if x == y:  
    print(x, "and", y, "are equal")  
else:  
    if x < y:  
        print(x, "is less than", y)  
    else:  
        print(x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☒ d. 2 is greater than 1 ✓

Your answer is correct.

The correct answer is: 2 is greater than 1

Question 10

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 11

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "print" called?

Select one:

- ☒ a. a function ✓
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: a function

Question 12

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
percentage = ( 60 * 100) // 55  
print (percentage)
```

Select one:

- ☐ a. percentage
- ☒ b. 109 ✓
- ☐ c. 109.0909090909091
- ☐ d. 109.0

Your answer is correct.

The correct answer is: 109

Question 14

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print (1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

Question 15

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 16

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question 17

Correct

Mark 1.00 out of 1.00

Using keywords for variable names will result in a _____

Select one:

- ☐ a. runtime error
- ☐ b. compile error
- ☒ c. syntax error ✓
- ☐ d. semantic error

The correct answer is: syntax error

Question 18

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print(n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

Question 19

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language

✓

Any one of the languages that people speak that evolved naturally.

natural language

✓

An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error

✓

An error in a program that makes it do something other than what the programmer intended.

semantic error

✓

The meaning of a program.

semantics

✓

The structure of a program.

syntax

✓

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error

✓

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token

✓

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

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Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Open-source Internet sites like Wikipedia should not be used in academic writing because

Select one:

- ☐ a. The information is too simplistic
- ☒ b. The information posted is not reviewed for accuracy ✓
- ☐ c. The information is not objective
- ☐ d. The information is out of date

The correct answer is: The information posted is not reviewed for accuracy

Question 2

Correct

Mark 1.00 out of 1.00

Which of the following is NOT an example of plagiarism:

Select one:

- ☐ a. Using someone else's words as your own
- ☒ b. Paraphrasing a passage from a website with in-text citation and reference ✓
- ☐ c. Including a quotation from a book without in-text citations
- ☐ d. Failing to put quotation marks around quoted material

The correct answer is: Paraphrasing a passage from a website with in-text citation and reference

Question 3

Correct

Mark 1.00 out of 1.00

Choose the sentence that best uses the word 'solar'

Select one:

- ☐ a. I need to get my solar time down in time for the big game.
- ☒ b. We got solar panels to help power the electricity in our house using the sun. ✓
- ☐ c. I need to buy two solars before I can start my next project.
- ☐ d. I'll give you 100 solar for that dress.

The correct answer is: We got solar panels to help power the electricity in our house using the sun.

Question 4

Correct

Mark 1.00 out of 1.00

You can edit your paper by ____.

Select one:

- ☐ a. reading it out loud
- ☐ b. printing it off and marking the paper copy with a pen
- ☐ c. reading it backwards by starting with the last sentence
- ☒ d. all of the above ✓

The correct answer is: all of the above

Question 5

Correct

Mark 1.00 out of 1.00

The word "classic" describes something of high quality that has been proven over time.

Select one:

- ☒ a. True ✓
- ☐ b. False

The correct answer is: True

Question 6

Correct

Mark 1.00 out of 1.00

In the sentence, "Ruby learned to float on her back in the swimming pool," 'float' most likely means_____.

Select one:

- ☒ a. Ruby learned to keep her body at the top or just above the water in the pool. ✓
- ☐ b. Ruby's learned to sink to the bottom of the swimming pool.
- ☐ c. Ruby learned to hold her breath under water.
- ☐ d. Ruby climbed out of the swimming pool.

The correct answer is: Ruby learned to keep her body at the top or just above the water in the pool.

Question 7

Correct

Mark 1.00 out of 1.00

"Select" means to speak a quiet voice so only the person next to you can hear.

Select one:

- ☐ a. True
- ☒ b. False ✓

The correct answer is: False

Question 8

Correct

Mark 1.00 out of 1.00

In the sentence, "The chemical in that lotion is very harmful to the skin," 'harmful' most likely indicates_____.

Select one:

- ☐ a. The lotion will help any problems with the skin.
- ☐ b. The lotion should not be used on the skin.
- ☐ c. The lotion will damage or hurt the skin.
- ☒ d. Both b & c ✓

The correct answer is: Both b & c

Question 9

Correct

Mark 1.00 out of 1.00

Choose the sentence that best uses the word 'bitter'.

Select one:

- ☐ a. The ice cream was sweet, creamy, and bitter.
- ☐ b. You can find a bitter in the dairy section of the grocery store.
- ☒ c. The lemon is very sour and bitter. ✓
- ☐ d. A bitter makes a great toy for a child.

The correct answer is: The lemon is very sour and bitter.

Question 10

Correct

Mark 1.00 out of 1.00

To meet APA formatting standards, you should include___ and ___ in your essay.

Select one:

- ☐ a. good ideas and jokes
- ☒ b. in-text citations and references ✓
- ☐ c. references and end notes
- ☐ d. a and c
- ☐ e. none of the above

The correct answer is: in-text citations and references

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Marks	20.00/20.00
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Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the Python code below?

```
s = "help"
for letter in s[1:]:
    last = letter
    break
print(last)
```

Select one:

- ☐ a. h
- ☒ b. e ✓
- ☐ c. !
- ☐ d. p
- ☐ e. l

Your answer is correct.

The correct answer is: e

Question 2

Correct

Mark 1.00 out of 1.00

True or False: A local variable is a variable defined inside a function that can only be used inside its function.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 3

Correct

Mark 1.00 out of 1.00

What is the value of the variable index after the Python code below is executed?

```
word = 'bAnana'
index = word.find('a')
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 1
- ☐ c. 2
- ☐ d. 5
- ☐ e. 0

Your answer is correct.

The correct answer is: 3

Question 4

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
def area(l, w):
    temp = l * w
    return temp
l = 4.0
w = 3.25
x = area(l, w)
if ( x ):
    print(x)
```

Select one:

- ☒ a. 13.0 ✓
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

The correct answer is: 13.0

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n / 10
    n=int(n)
print(count)
```

Select one:

- ☒ a. 5 ✓
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question 6

Correct

Mark 1.00 out of 1.00

The Python 3 program below prints the number 3.

```
s = "Python3"
print(s[len(s)])
```

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 7

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1 ✓
- ☐ c. 2
- ☐ d. 5 0

The correct answer is: 5 1

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Your answer is correct.

The correct answer is: 3

Question 9

Correct

Mark 1.00 out of 1.00

Functions can only return boolean expressions.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 10

Correct

Mark 1.00 out of 1.00

Expressions evaluate to either True or False. What will be the output of the following Python 3 program?

```
if "Ni!":  
    print ("We are the Knights who say, "Ni!")  
else:  
    print ("Stop it! No more of this!")
```

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!" ✓
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

The correct answer is: We are the Knights who say, "Ni!"

Question 11

Correct

Mark 1.00 out of 1.00

A loop where the terminating condition is never achieved is called ____.

Select one:

- ☒ a. an infinite loop ✓
- ☐ b. a universal loop
- ☐ c. a while loop
- ☐ d. a for .. ever loop

The correct answer is: an infinite loop

Question 12

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 script produce?

```
def function2(param):  
    print (param, param)  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
chant1 = "See You"  
chant2 = "See Me"  
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☒ b. See YouSee Me See YouSee Me ✓
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

The correct answer is: See YouSee Me See YouSee Me

Question 13

Correct

Mark 1.00 out of 1.00

A development approach that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called:

Select one:

- ☐ a. structured development
- ☒ b. incremental development ✓
- ☐ c. unit testing
- ☐ d. Systems development life cycle

The correct answer is: incremental development

Question 14

Correct

Mark 1.00 out of 1.00

The statements inside of a Python loop are known as the ____ of the loop.

Select one:

- ☒ a. body ✓
- ☐ b. expression
- ☐ c. counter
- ☐ d. block

The correct answer is: body

Question 15

Correct

Mark 1.00 out of 1.00

The following Python 3 code is an example of what principle?

```
bruce = 5
print (bruce,)
bruce = 7
print (bruce)
```

Select one:

- ☒ a. Reassignment ✓
- ☐ b. An Iteration or loop structure
- ☐ c. A logical operator
- ☐ d. A conditional expression

The correct answer is: Reassignment

Question 16

Correct

Mark 1.00 out of 1.00

What output will the following Python commands produce?

```
>>> percentage = float ( 60 * 100) / 55
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 17

Correct

Mark 1.00 out of 1.00

What is the return type of the Python function shown below?

```
def is_divisible(x, y):  
    return (x % y) == 0
```

Select one:

- ☐ a. int
- ☐ b. float
- ☒ c. bool ✓
- ☐ d. string
- ☐ e. NoneType

Your answer is correct.

The correct answer is: bool

Question 18

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = float(3.14159)  
print(pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

Your answer is correct.

The correct answer is: 3.14159

Question 19

Correct

Mark 1.00 out of 1.00

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

With built in functions, it is generally acceptable to take a "Leap of Faith".

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Started on	Monday, 20 May 2024, 1:03 PM
State	Finished
Completed on	Monday, 20 May 2024, 1:43 PM
Time taken	40 mins 53 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the Python code below?

```
s = "help"
for letter in s[1:]:
    last = letter
    break
print(last)
```

Select one:

- ☐ a. h
- ☒ b. e ✓
- ☐ c. !
- ☐ d. p
- ☐ e. l

Your answer is correct.

The correct answer is: e

Question 2

Correct

Mark 1.00 out of 1.00

True or False: A local variable is a variable defined inside a function that can only be used inside its function.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 3

Correct

Mark 1.00 out of 1.00

What is the value of the variable index after the Python code below is executed?

```
word = 'bAnana'
index = word.find('a')
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 1
- ☐ c. 2
- ☐ d. 5
- ☐ e. 0

Your answer is correct.

The correct answer is: 3

Question 4

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
def area(l, w):
    temp = l * w
    return temp
l = 4.0
w = 3.25
x = area(l, w)
if ( x ):
    print(x)
```

Select one:

- ☒ a. 13.0 ✓
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

The correct answer is: 13.0

Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n / 10
    n=int(n)
print(count)
```

Select one:

- ☒ a. 5 ✓
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question 6

Correct

Mark 1.00 out of 1.00

The Python 3 program below prints the number 3.

```
s = "Python3"
print(s[len(s)])
```

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 7

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1 ✓
- ☐ c. 2
- ☐ d. 5 0

The correct answer is: 5 1

Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Your answer is correct.

The correct answer is: 3

Question 9

Correct

Mark 1.00 out of 1.00

Functions can only return boolean expressions.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 10

Correct

Mark 1.00 out of 1.00

Expressions evaluate to either True or False. What will be the output of the following Python 3 program?

```
if "Ni!":  
    print ("We are the Knights who say, "Ni!")  
else:  
    print ("Stop it! No more of this!")
```

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!" ✓
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

The correct answer is: We are the Knights who say, "Ni!"

Question 11

Correct

Mark 1.00 out of 1.00

A loop where the terminating condition is never achieved is called ____.

Select one:

- ☒ a. an infinite loop ✓
- ☐ b. a universal loop
- ☐ c. a while loop
- ☐ d. a for .. ever loop

The correct answer is: an infinite loop

Question 12

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 script produce?

```
def function2(param):  
    print (param, param)  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
chant1 = "See You"  
chant2 = "See Me"  
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☒ b. See YouSee Me See YouSee Me ✓
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

The correct answer is: See YouSee Me See YouSee Me

Question 13

Correct

Mark 1.00 out of 1.00

A development approach that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called:

Select one:

- ☐ a. structured development
- ☒ b. incremental development ✓
- ☐ c. unit testing
- ☐ d. Systems development life cycle

The correct answer is: incremental development

Question 14

Correct

Mark 1.00 out of 1.00

The statements inside of a Python loop are known as the ____ of the loop.

Select one:

- ☒ a. body ✓
- ☐ b. expression
- ☐ c. counter
- ☐ d. block

The correct answer is: body

Question 15

Correct

Mark 1.00 out of 1.00

The following Python 3 code is an example of what principle?

```
bruce = 5
print (bruce,)
bruce = 7
print (bruce)
```

Select one:

- ☒ a. Reassignment ✓
- ☐ b. An Iteration or loop structure
- ☐ c. A logical operator
- ☐ d. A conditional expression

The correct answer is: Reassignment

Question 16

Correct

Mark 1.00 out of 1.00

What output will the following Python commands produce?

```
>>> percentage = float ( 60 * 100) / 55
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 17

Correct

Mark 1.00 out of 1.00

What is the return type of the Python function shown below?

```
def is_divisible(x, y):  
    return (x % y) == 0
```

Select one:

- ☐ a. int
- ☐ b. float
- ☒ c. bool ✓
- ☐ d. string
- ☐ e. NoneType

Your answer is correct.

The correct answer is: bool

Question 18

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = float(3.14159)  
print(pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

Your answer is correct.

The correct answer is: 3.14159

Question 19

Correct

Mark 1.00 out of 1.00

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

With built in functions, it is generally acceptable to take a "Leap of Faith".

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

Started on	Monday, 20 May 2024, 9:13 AM
State	Finished
Completed on	Monday, 20 May 2024, 9:39 AM
Time taken	26 mins 35 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Functions can only return boolean expressions.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 2

Correct

Mark 1.00 out of 1.00

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 3

Correct

Mark 1.00 out of 1.00

What output will the following Python commands produce?

```
>>> percentage = float ( 60 * 100) / 55  
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

Question 4

Correct

Mark 1.00 out of 1.00

What output will the following interactive Python statements produce?

```
>>> n = 2  
>>> n += 5  
>>> n
```

Select one:

- ☒ a. 7 ✓
- ☐ b. 5
- ☐ c. 0
- ☐ d. None

Your answer is correct.

The correct answer is: 7

Question 5

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

Your answer is correct.

The correct answer is: 3.14159

Question 6

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
pi = int(3.14159)
print (pi)
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 3.0
- ☐ c. 3.14159
- ☐ d. 0

Your answer is correct.

The correct answer is: 3

Question 7

Correct

Mark 1.00 out of 1.00

With built in functions, it is generally acceptable to take a "Leap of Faith".

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 8

Correct

Mark 1.00 out of 1.00

The following Python 3 code is an example of what principle?

```
bruce = 5  
print (bruce,)  
bruce = 7  
print (bruce)
```

Select one:

- ☒ a. Reassignment ✓
- ☐ b. An Iteration or loop structure
- ☐ c. A logical operator
- ☐ d. A conditional expression

The correct answer is: Reassignment

Question 9

Correct

Mark 1.00 out of 1.00

What does the following Python 3 function do?

```
def subroutine(n):  
    while n > 0:  
        print (n,)   
        n -= 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number ✓
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

The correct answer is: Counts from n down to 1 and displays each number

Question 10

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 program produce?

```
n = 10  
while n != 1:  
    print(n,)   
    if n % 2 == 0: # n is even  
        n = n / 2  
    else: # n is odd  
        n = n * 3 + 1
```

Select one:

- ☒ a. 10 5.0 16.0 8.0 4.0 2.0 ✓
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

The correct answer is: 10 5.0 16.0 8.0 4.0 2.0

Question 11

Correct

Mark 1.00 out of 1.00

Will the Python code below print something? And will it terminate?

```
def print_n(s, n):  
    if n > 0:  
        print(s)  
        print_n(s, n-1)  
    return n  
n = 3  
while print_n("hi", n):  
    print_n("there!", n)  
    n = 0
```

Select one:

- ☐ a. no and no
- ☐ b. yes and no
- ☐ c. no and yes
- ☒ d. yes and yes ✓
- ☐ e. syntax error

Your answer is correct.

The correct answer is: yes and yes

Question 12

Correct

Mark 1.00 out of 1.00

Match the following terms and definitions

The order in which statements are executed during a program run.

flow of execution



The first part of a compound statement begins with a keyword and ends with a colon (:)

header



A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses.

function call



A variable defined inside a function that can only be used inside its function.

local variable



A graphical representation of functions, their variables, and the values to which they refer.

stack diagram



Your answer is correct.

The correct answer is: The order in which statements are executed during a program run. → flow of execution, The first part of a compound statement begins with a keyword and ends with a colon (:) → header, A statement that executes a function. It consists of the name of the function followed by a list of arguments enclosed in parentheses. → function call, A variable defined inside a function that can only be used inside its function. → local variable, A graphical representation of functions, their variables, and the values to which they refer. → stack diagram

Question 13

Correct

Mark 1.00 out of 1.00

A loop where the terminating condition is never achieved is called ____.

Select one:

- ☒ a. an infinite loop ✓
- ☐ b. a universal loop
- ☐ c. a while loop
- ☐ d. a for .. ever loop

The correct answer is: an infinite loop

Question 14

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 script produce?

```
def function2(param):  
    print (param, param)  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
chant1 = "See You"  
chant2 = "See Me"  
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☒ b. See YouSee Me See YouSee Me ✓
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

The correct answer is: See YouSee Me See YouSee Me

Question 15

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
def area(l, w):  
    temp = l * w  
    return temp  
l = 4.0  
w = 3.25  
x = area(l, w)  
if ( x ):  
    print (x)
```

Select one:

- ☒ a. 13.0 ✓
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

The correct answer is: 13.0

Question 16

Correct

Mark 1.00 out of 1.00

Expressions evaluate to either True or False. What will be the output of the following Python 3 program?

```
if "Ni!":  
    print ('We are the Knights who say, "Ni!"')  
else:  
    print ("Stop it! No more of this!")
```

Select one:

- ☐ a. Stop it!
- ☒ b. We are the Knights who say, "Ni!" ✓
- ☐ c. Stop it! No more of this!"
- ☐ d. No output will be produced

The correct answer is: We are the Knights who say, "Ni!"

Question 17

Correct

Mark 1.00 out of 1.00

What is the value of the variable index after the Python code below is executed?

```
word = 'bAnana'  
index = word.find('a')
```

Select one:

- ☒ a. 3 ✓
- ☐ b. 1
- ☐ c. 2
- ☐ d. 5
- ☐ e. 0

Your answer is correct.

The correct answer is: 3

Question 18

Correct

Mark 1.00 out of 1.00

A development approach that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called:

Select one:

- ☐ a. structured development
- ☒ b. incremental development ✓
- ☐ c. unit testing
- ☐ d. Systems development life cycle

The correct answer is: incremental development

Question 19

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n / 10
    n=int(n)
print(count)
```

Select one:

- ☒ a. 5 ✓
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question 20

Correct

Mark 1.00 out of 1.00

What is the return type of the Python function shown below?

```
def is_divisible(x, y):  
    return (x % y) == 0
```

Select one:

- ☐ a. int
- ☐ b. float
- ☒ c. bool ✓
- ☐ d. string
- ☐ e. NoneType

Your answer is correct.

The correct answer is: bool

CS 1101 T5 2023 FINAL EXAM

In Python, a list of characters is the same as a string.

Select one:

- ☐ True
- ☒ False

Time left 0:50:53

Not yet answered

Marked out of 1.00

[Flag question](#)

What does Python function procedure do?

```
def procedure( n ):
```

```
    while n > 0:
```

```
        print (n,)
```

```
        n = n - 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

[Clear my choice](#)

Question **2**

Not yet answered

Marked out of 1.00

[Flag question](#)

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. dictionary of lists
- ☐ c. list
- ☒ d. tuple
- ☐ e. All of the above

[Clear my choice](#)

Question **3**

Not yet answered

Marked out of 1.00

[Flag question](#)

Which of the following is **not** a Python keyword?

Select one:

- ☐ a. def
- ☐ b. else
- ☐ c. in
- ☒ d. path
- ☐ e. break

[Clear my choice](#)

Question **4**

Not yet answered

Marked out of 1.00

[Flag question](#)

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True
- ☐ False

Question **5**

Not yet answered

Marked out of 1.00

[Flag question](#)

In most cases, it is possible to prevent an exception from terminating a program by using the try and except statements.

Select one:

- ☒ True
- ☐ False

Question **6**

Not yet answered

Marked out of 1.00

[Flag question](#)

The Python line below causes "5 dollars" to be printed.

```
print('%s %d' % (5, 'dollars'))
```

Select one:

- ☒ True
☐ False

Question **7**

Not yet answered

Marked out of 1.00

[Flag question](#)

The elements of a Python list can be of different data types.

Select one:

- ☐ True
☒ False

Question **8**

Not yet answered

Marked out of 1.00

[Flag question](#)

Python tuples are mutable.

Select one:

- ☒ True
☐ False

Question **9**

Not yet answered

Marked out of 1.00

[Flag question](#)

What is the output of the following Python program?

```
index = "Ability is a poor man's wealth".find("w")  
print(index)
```

Select one:

- ☒ a. 24
☐ b. 0
☐ c. 23
☐ d. -1

[Clear my choice](#)

Question **10**

Not yet answered

Marked out of 1.00

[Flag question](#)

Assume that `d` is a Python dictionary. What does the following Python code produce?

`d.items()`

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☒ e. a reverse lookup

[Clear my choice](#)

Question **11**

Not yet answered

Marked out of 1.00

[Flag question](#)

To create a new object that has the same **value** as an existing object is known as creating an **alias**.

Select one:

- ☐ True
- ☒ False

Question **12**

Not yet answered

Marked out of 1.00

[Flag question](#)

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:

- ☐ True
- ☒ False

Question **13**

Not yet answered


Marked out of 1.00

[Flag question](#)

Question **14**

Not yet answered

Marked out of 1.00

 [Flag question](#)

After the Python code below has run, what happens if 'the_file' does **not** already exist?

```
try:
    fin = open('the_file', 'r')
except:
    fin = open('the_file', 'w')
fin.close()
```

Select one:


- ☐ a. A run-time error is printed out
- ☐ b. An exception is printed out
- ☐ c. Nothing
- ☒ d. An empty file is created
- ☐ e. Syntax error

[Clear my choice](#)

Question **15**

Not yet answered

Marked out of 1.00

 [Flag question](#)

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. $8 \wedge 2$
- ☐ b. $8 ** 2$
- ☐ c. $8 +- 2$
- ☒ d. $8 += 2$
- ☐ e. $8 -+ 2$

[Clear my choice](#)

What is the output of the following Python 3 program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 8:
    print(mylist[a],)
    a = a + 2
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☒ c. for score and seven years
- ☐ d. now four is score the and seven time years for

[Clear my choice](#)

Question **16**

Not yet answered

Marked out of 1.00

[Flag question](#)

What output will the following code produce?

```
n = 10
while n != 1:
    print (n,)
    if n % 2 == 0: # n is even
        n = n // 2
    else: # n is odd
        n = n * 3 + 1
```

Select one:

- ☒ a. 10 5 16 8 4 2
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

[Clear my choice](#)

Question **17**

Not yet answered

Marked out of 1.00

[Flag question](#)

Assuming variable `i` has been created with value 2, what does the Python code below output?

```
def myf(s, n):  
    global i  
    print(s * i * n)  
myf('hi-', 3)
```

Select one:

- ☐ a. hi-hi-hi-hi-hi-
- ☐ b. hi-hi-hi-
- ☐ c. hi-
- ☐ d. hi-hi-
- ☒ e. Syntax error

[Clear my choice](#)

Question **18**

Not yet answered

Marked out of 1.00

[Flag question](#)

A Python loop where the terminating condition is never achieved is called ____.

Select one:

- ☒ a. an infinite loop
- ☐ b. a universal loop
- ☐ c. a while loop
- ☐ d. a for .. ever loop

[Clear my choice](#)

Question **19**

Not yet answered


Marked out of 1.00

[Flag question](#)

Question **20**

Not yet answered

Marked out of 1.00

 [Flag question](#)

In the Python code below, which function calls will occur if choice has value 'a'?

```
if choice == 'a':  
    draw_a()  
elif choice == 'b' or choice == 'a':  
    draw_b()
```


Select one:

- ☐ a. draw_b()
- ☐ b. both draw_a() and draw_b()
- ☒ c. draw_a()
- ☐ d. None
- ☐ e. Syntax error because of no else

[Clear my choice](#)Question **21**

Not yet answered

Marked out of 1.00

 [Flag question](#)

What is the output of the following Python program?

```
mylist = [ [2,2,1], [1,2,3], [1,1,1] ]  
total = 0  
for sublist in mylist:  
    total += sum(sublist)  
print(total)
```

Select one:

- ☒ a. 14
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

[Clear my choice](#)

Question **22**

Not yet answered

Marked out of 1.00

🚩 [Flag question](#)

What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)  
recurse(0)
```

Select one:

- ☒ a. 0
- ☐ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

[Clear my choice](#)

Question **23**

Not yet answered

Marked out of 1.00

🚩 [Flag question](#)

If you use a Python dictionary in a for statement, it traverses the ____ of the dictionary.

Select one:

- ☐ a. values and keys
- ☒ b. keys
- ☐ c. keys and values
- ☐ d. values
- ☐ e. indices

[Clear my choice](#)

An error in a program that makes it do something other than what the programmer intended is called:

Select one:

- ☐ a. a syntax error
- ☒ b. a semantic error
- ☐ c. an exception
- ☐ d. a user error
- ☐ e. a side-effect

[Clear my choice](#)

Question **24**

Not yet answered

Marked out of 1.00

[Flag question](#)

A Python expression is a combination of variables, operators, and values that represents a single result.

Select one:

- ☒ True
- ☐ False

Question **25**

Not yet answered

Marked out of 1.00

[Flag question](#)

The python code below is an example of **indirect** recursion:

```
def fa():  
    fb()  
def fb():  
    fa()  
fa()
```

Select one:

- ☒ True
- ☐ False

Question **26**

Not yet answered

Marked out of 1.00

[Flag question](#)

What is the output of the following Python statements?

```
x = 5
if x % 2 == 1:
    print(x)
else:
    print(x, x%2)
```

Select one:

- ☒ a. 5
- ☐ b. (5, 1)
- ☐ c. 2
- ☐ d. (5, 0)

[Clear my choice](#)

Question **27**

Not yet answered

Marked out of 1.00

[Flag question](#)

Boolean expressions control _____

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above

[Clear my choice](#)

Question **28**

Not yet answered


Marked out of 1.00

[Flag question](#)

Question **29**

Not yet answered

Marked out of 1.00

 [Flag question](#)

To examine a program's source code and analyze its syntactic structure is to:

Select one:


- ☐ a. compile the program.
- ☐ b. debug the program.
- ☒ c. parse the program.
- ☐ d. comment the program.
- ☐ e. interpret the program.

[Clear my choice](#)

Question **30**

Not yet answered

Marked out of 1.00

 [Flag question](#)

What output will the following Python script produce?

```
def function2(param):  
    print (param, param)  
  
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)  
  
chant1 = "See Me "  
chant2 = "See You "  
function1(chant1, chant2)
```

Select one:

- ☐ a. See Me See You
- ☐ b. See You See Me See You See Me
- ☒ c. See Me See You See Me See You
- ☐ d. None it would generate an error

[Clear my choice](#)



CS 1101-01 final exam

Computer Science (University of the People)



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1 Given the following code, what will the output be?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
a=0
while a < 7:
    print (mylist[a],)
    a += 2
```

Select one:

a.

now is the time

b.

now is the time for

c.

for score and seven years

d.

now four is score the and seven time years for

2 Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language

Any one of the languages that people speak that evolved naturally.

natural language

An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error

An error in a program that makes it do something other than what the programmer intended.

Semantics error

The meaning of a program.

semantics

The structure of a program.

syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Token

3 Assume that d is a Python dictionary. What does the following Python code produce?

d.items()

Select one:

- a.
a histogram
- b.
an inverted dictionary
- c.
a list of tuples
- d.
a lookup
- e.
a reverse lookup

4 What output will the following python commands produce:

```
n = 10000
count = 0
while n:
    count = count + 1
    n = n // 10
```

```
print (count)
```

Select one:

- a.
5
- b.
0
- c.
10000
- d.
1000

5 Which one of the following Python expressions has the value 64?

Select one:

a.
 $8 \wedge 2$

b.
 $8 ** 2$

c.
 $8 +- 2$

d.
 $8 += 2$

e.
 $8 \rightarrow 2$

6 A variable that has a data type of "str" cannot be part of a compound data type

Select one:

True

False

7 What is the output of the following Python program?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]  
total = 0  
for sublist in mylist:  
    total += sum(sublist)  
print(total)
```

Select one:

a.
14

b.
23

c.
0

d.

13

8 Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:

True

False

9 Which of the following types are allowed for Python dictionary keys?

Select one:

a.

dictionary

b.

list

c.

list of dictionaries

d.

tuple

e.

All of the above

10 What does function subroutine do?

```
def subroutine( n ):
```

```
    while n > 0:
```

```
        print (n,)
```

```
        n -= 1
```

Select one:

a.

Counts from 10 down to 0 and displays each number

b.

Counts from n down to 1 and displays each number

c.

Calculates the sum of n numbers greater than 0

d.

Calculates the mean of n

11 What is the output of the following Python statements?

```
def recurse(a):  
    if (a == 0):  
        print(a)  
    else:  
        recurse(a)
```

recurse(1)

Select one:

a.

0

b.

1

c.

no output

d.

RuntimeError: maximum recursion depth exceeded

12 Boolean expressions control _____

Select one:

a.

recursion

b.

conditional execution

c.

alternative execution

d.

all of the above

13 What is the output of the following statements?

```
pi = float(3.14159)
```

```
print (pi)
```

Select one:

a.

3

b.

3.0

c.

3.14159

d.

0

14 Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

True

False

15 Which one of the following Python expressions generates a syntax error?

Select one:

a.

8 ^ 2

b.

8 ** 2

c.

8 +- 2

d.

8 += 2

e.

8 -+ 2

16 What is the output of the following Python program?

```
index = "Ability is a poor man's wealth".find("W")  
print(index)
```

Select one:

a.
24

b.
0

c.
23

d.
-1

17 What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

a.
5 5 5.000000

b.
5 5 5

c.
5 5.000000

d.
0 5 5.0

18 What is the output of the following Python program?

```
try:
```

```
    fin = open('answer.txt')
```

```
    fin.write('Yes')
```

```
except:
```

```
    print('No')
```

```
print('Maybe')
```

Select one:

a.
Yes

b.

No

c.
Maybe

d.
Yes
Maybe

e.
No
Maybe

19 A loop where the terminating condition is never achieved is called an _____
Select one:

a.
infinite loop

b.
universal loop

c.
while loop

d.
for .. ever loop

20 What is the output of the Python method invocation below?

"bib".find('b', 1, 2)

Select one:

a.
0

b.
2

c.
-1

d.
syntax error

e.
3

21 For the Python program below, will there be any output, and will the program terminate?

while True:

 while 1 > 0:

 break

 print("Got it!")

 break

Select one:

a.
Yes and no

b.
No and no

c.
Yes and yes

d.
No and yes

e.
Run-time error

22 Which one of the following Python expressions has the value 10?

Select one:

a.
8 ^ 2

b.

8 ** 2

c.

8 +- 2

d.

8 += 2

e.

8 -- 2

23 What output will the following python commands produce:

```
x=1
y=2
if x == y:
    print (x, "and", y, "are equal")
else:
    if x < y:
        print (x, "is less than", y)
    else:
        print (x, "is greater than", y)
```

Select one:

a.

1 and 2 are equal

b.

1 is less than 2

c.

1 is greater than 2

d.

2 is greater than 1

24 Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is word?

Select one:

- a.
A file object
- b.
A list of characters
- c.
A list of words
- d.
A string that may have a newline
- e.
A string with no newline

25 Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
    val = d[key]
    if val not in result:
        result[val] = [key]
    else:
        result[val].append(key)
```

Select one:

- a.
a histogram
- b.
an inverted dictionary
- c.
a list of tuples
- d.
a lookup

e.
a reverse lookup

26 What is Python's response to the command: `type(0.123)`

Select one:

a.
`<class 'float'>`

b.
`<class 'bool'>`

c.
SyntaxError: invalid syntax

d.
`<class 'int'>`

e.
`<class 'str'>`

27 What output will the following code produce?

```
n = 10
while n != 1:
    print (n,end=' ')
    if n % 2 == 0:      # n is even
        n = n // 2
    else:              # n is odd
        n = n * 3 + 1
```

Select one:

a.
10 5 16 8 4 2

b.
None an error will be displayed

c.
8 4 2

d.

9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

28 What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]  
print(" ".join(mylist[1::2]))
```

Select one:

a.

now is the time

b.

now is the time for

c.

four score and seven years

d.

now four is score the and seven time years for

29 What output will the following code produce?

```
def area(l, w):  
    temp = l * w;  
    return temp
```

```
l = 4.0
```

```
w = 3.25
```

```
x = area(l, w)
```

```
if ( x ):
```

```
    print (x)
```

Select one:

a.

13.0

b.

0

c.

Expression does not evaluate to boolean true

d.

13

30 What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

a.

[1, 4, 2, 3, 5]

b.

[5, 1, 4, 2, 3]

c.

[null]

d.

[1, 4, 2, 3]

31 Handling an exception with a try statement is called throwing an exception.

Select one:

True

False

32 Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What does the program loop over?

Select one:

a.

Lines in a file

b.

Lines in a list

c.

Words in a dictionary

d.

Words in a list

e.

Words in a string

33 The Python line below causes "5 dollars" to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

True

False

34 The Python expression 'Unit 6'[-1] has value '6'.

Select one:

True

False

35 What output will the following Python script produce?

```
def function2(param):  
    print (param, param)
```

```
def function1(part1, part2):  
    cat = part1 + part2  
    function2(cat)
```

```
chant1 = "See Me "  
chant2 = "See You "  
function1(chant1, chant2)  
Select one:
```

a.

See You See Me

b.

See Me See You See Me See You

c.

See Me See Me See You See You

d.

None it would generate an error

36 Which of the following types are allowed for Python dictionary values?

Select one:

a.
dictionary

b.
list

c.
list of dictionaries

d.
tuple

e.
all of the above

37 String objects are modified with string slices.

Select one:

True

False

38 Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")
```

```
print(index)
```

Select one:

a.
24

b.
0

c.
23

d.
-1

39 What is the value of the following Python expression?

```
not(True and False)
```

Select one:

True

False

40 In Python, a list of characters is the same as a string.

Select one:

True

False

41 What is Python's response to the command: `type(123)`

Select one:

a.

`<class 'float'>`

b.

`<class 'bool'>`

c.

SyntaxError: invalid syntax

d.

`<class 'int'>`

e.

`<class 'str'>`

42 A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

a.

structured development

b.

incremental development

c.

unit testing

d.

Systems development life cycle

43 What output will the following code produce?

```
mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
a=0
b=0
total = 0
while a <= 2:
    while b < 2:
        total += mylist[a][b]
        b += 1
    a += 1
    b = 0
print (total)
Select one:
```

a.
14

b.
23

c.
0

d.
13

44 What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
Select one:
```

a.
3

b.
3.0

c.
3.14159

d.
0

45 What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

a.

0

b.

{1, 2, 3}

c.

None

d.

syntax error

e.

[1, 2, 3]

46 Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is line?

Select one:

a.

A file object

b.

A list of characters

c.

A list of words

d.

A string that may have a newline

e.

A string with no newline

47 What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list)
```

Select one:

a.

0

b.

{3, 2, 1}

c.

None

d.

syntax error

e.

[3, 2, 1]

48 When a Python function is called, inside the function, the arguments are assigned to variables called parameters.

Select one:

True

False

49 : To create a new object that has the same value as an existing object is know as creating an alias.

Select one:

True

False

50 : The following code:

```
for fruit in ["banana", "apple", "quince"]:
    print (fruit)
```

will produce the following output:

```
banana
apple
quince
Select one:
True
False
```

51 Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```

What is fin?
Select one:

a.
A file object

b.
A list of characters

c.
A list of words

d.
A string that may have a newline

e.
A string with no newline

52 What will the output of this python program be?

```
def test_function( length, width, height):
    print ("the volume of the box is ",length*width*height)
    return length*width*height
```

```
l = 12.5
w = 5
h = 2
test_function(l, w, h)
```


Select one:

- a.
The area of the box is 125
- b.
The volume of the box is 125.0
- c.
The volume of the box is 120
- d.
125.0

53 If you assign the result a void function to a variable in Python, you get:

Select one:

- a.
an empty string
- b.
the value -1
- c.
the value 0
- d.
the special value None
- e.
an exception

54 Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:  
    if d[k] == v:  
        return k
```

Select one:

- a.
a histogram

b.
an inverted dictionary

c.
a list of tuples

d.
a lookup

e.
a reverse lookup

55 The correct answer is: An error in a program. → **bug**,

The process of finding and removing any of the three kinds of programming errors. → **debugging**,

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → **formal language**,

A programming language like Python that is designed to be easy for humans to read and write. → **high-level language**,

A program that reads another program and executes it. → **interpreter**,

A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language. → **low-level language**,

Any one of the languages that people speak that evolved naturally. → **natural language**,

To examine a program and analyse the syntactic structure. → **parse**,

A property of a program that can run on more than one kind of computer. → **portability**,

An instruction that causes the Python interpreter to display a value on the screen. → **print statement**,

The process of formulating a problem, finding a solution, and expressing the solution. → **problem solving**,

A sequence of instructions that specifies to a computer actions and computations to be performed. → **program**,

A program stored in a file (usually one that will be interpreted). → **script**,

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → **token**,

The structure of a program. → **syntax**

56 If you use a Python dictionary in a for statement, it traverses the _____ of the dictionary.

Select one:

a.
values and keys

b.

indices

c.
keys and values

d.
values

e.
keys

57 What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
    print (x)
else:
    print (x, x%2)
Select one:
```

a.
5

b.
5 1

c.
2

d.
5 0



CS 1101-01 - Unit 9

Programming Fundamentals (University of the People)



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University of the People

CS 1101-01 Programming Fundamentals – AY2023-T4

Review Quiz

- The Python line below causes “5 dollars” to be printed.
`print('%d %s' % (5, 'dollars'))`
 - True**
 - False
- Which one of the following Python expressions generates a syntax error?
 - `8 ^ 2`
 - `8 ** 2`
 - `8 +- 2`
 - `8 += 2`**
 - `8 -+ 2`
- String objects are modified with string slices.
 - True
 - False**
- Given the following code, what will the output be?
`mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]`
`a=0`
`while a < 7:`
`print (mylist[a].)`
`a += 2`
 - now is the time**
 - now is the time for
 - for score and seven years
 - now four is score the and seven time years for
- What is the output of the Python method invocation below?
`"bib".find('b', 1, 2)`
 - 0
 - 2
 - 1**
 - syntax error
 - 3
- A loop where the terminating condition is never achieved is called an _____.
 - infinite loop**
 - universal loop
 - while loop
 - for .. ever loop
- : To create a new object that has the same value as an existing object is know as creating an alias.
 - True
 - False**
- The Python expression 'Unit 6'[-1] has value '6'.

- a. **True**
b. False
9. What is the output of the following Python program?
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
print(" ".join(mylist[1::2]))
a. now is the time
b. now is the time for
c. **four score and seven years**
d. now four is score the and seven time years for
10. When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.
a. **True**
b. False
11. What is the value of the following Python expression?
not(True and False)
a. **True**
b. False
12. What output will the following code produce?

```
def area(l, w):  
    temp = l * w;  
    return temp
```

```
l = 4.0  
w = 3.25  
x = area(l, w)  
if ( x):  
    print (x)
```

- a. **13.0**
b. 0
c. Expression does not evaluate to boolean true
d. 13
13. What is the output of the following Python program?
try:
 fin = open('answer.txt')
 fin.write('Yes')
except:
 print('No')
print('Maybe')
a. Yes
b. No
c. Maybe
d. Yes
Maybe
e. **No
Maybe**
14. What output will the following code produce?
n = 10

```

while n != 1:
    print(n,end=' ')
    if n % 2 == 0:      # n is even
        n = n // 2
    else:              # n is odd
        n = n * 3 + 1

```

- a. **10 5 16 8 4 2**
 - b. None an error will be displayed
 - c. 8 4 2
 - d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2
15. Which of the following types are allowed for Python dictionary **values**?
- a. dictionary
 - b. list
 - c. list of dictionaries
 - d. tuple
 - e. **all of the above**
16. Handling an exception with a try statement is called **throwing** an exception.
- a. True
 - b. **False**
17. What output will the following python commands produce:
- ```

n = 10000
count = 0
while n:
 count = count + 1
 n = n // 10

print(count)

```
- a. **5**
  - b. 0
  - c. 10000
  - d. 1000
18. A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.
- a. structured development
  - b. **incremental development**
  - c. unit testing
  - d. Systems development life cycle
19. What is the output of the following Python program?
- ```

mylist = [ [2,4,1], [1,2,3], [2,3,5] ]
total = 0
for sublist in mylist:
    total += sum(sublist)
print(total)

```
- a. 14
 - b. **23**
 - c. 0
 - d. 13
20. Assume that d is a Python dictionary. What does the following Python code produce?

- d.items()
- a. a histogram
 - b. an inverted dictionary
 - c. a list of tuples**
 - d. a lookup
 - e. a reverse lookup
21. What is the output of the following statements?
- ```
pi = float(3.14159)
print(pi)
```
- a. 3
  - b. 3.0
  - c. 3.14159**
  - d. o
22. Which one of the following Python expressions has the value 10?
- a. 8 ^ 2**
  - b. 8 \*\* 2
  - c. 8 +- 2
  - d. 8 += 2
  - e. 8 -+ 2
23. What is Python's response to the command: type(0.123)
- a. <class 'float'>**
  - b. <class 'bool'>
  - c. SyntaxError: invalid syntax
  - d. <class 'int'>
  - e. <class 'str'>
24. What is the output of the following statements?
- ```
pi = int(3.14159)
print(pi)
```
- a. 3**
 - b. 3.0
 - c. 3.14159
 - d. o
25. Consider the following Python program.
- ```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What does the program loop over?

- a. Lines in a file**
  - b. Lines in a list
  - c. Words in a dictionary
  - d. Words in a list
  - e. Words in a string
26. What is the output of the Python code below?
- ```
my_list = [3, 2, 1]
print(my_list.sort())
```
- a. o

- b. {1, 2, 3}
 - c. None**
 - d. syntax error
 - e. [1, 2, 3]
27. Boolean expressions control _____
- a. recursion
 - b. conditional execution
 - c. alternative execution
 - d. all of the above**
28. Consider the following Python program.
- ```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```
- What is word?
- a. A file object
  - b. A list of characters
  - c. A list of words
  - d. A string that may have a newline
  - e. A string with no newline**
29. Consider the following Python program.
- ```
fin = open('words.txt')
for line in fin:
    word = line.strip()
    print(word)
```
- What is line?
- a. A file object
 - b. A list of characters
 - c. A list of words
 - d. A string that may have a newline**
 - e. A string with no newline
30. What is the output of the following Python program?
- ```
index = "Ability is a poor man's wealth".find("W")
print(index)
```
- a. 24
  - b. 0
  - c. 23
  - d. -1**



# CS 1101 - AY2021-T4 Final Exam (Days 1 - 4) Review Quiz

Programming Fundamentals (University of the People)



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|                     |                                 |
|---------------------|---------------------------------|
| <b>Started on</b>   | Wednesday, 2 June 2021, 8:35 AM |
| <b>State</b>        | Finished                        |
| <b>Completed on</b> | Wednesday, 2 June 2021, 8:58 AM |
| <b>Time taken</b>   | 23 mins 21 secs                 |
| <b>Marks</b>        | 26.00/30.00                     |
| <b>Grade</b>        | 86.67 out of 100.00             |

### Question 1

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

A loop where the terminating condition is never achieved is called an \_\_\_\_\_

Select one:

☒ a. infinite loop

☐ b. universal loop

☐ c. while loop

☐ d. for .. ever loop

### Question 2

Correct  
Mark 1.00 out of 1.00

### Flag question

Question text

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")
print(index)
```

Select one:

☒ a. 24

☐ b. 0

☐ c. 23

☐ d. -1

### Question 3

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

☒ True

☐ False

### Question 4

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

What is Python's response to the command: `type(123)`

Select one:

- ☐ a. `<class 'float'>`
- ☐ b. `<class 'bool'>`
- ☐ c. `SyntaxError: invalid syntax`
- ☒ d. `<class 'int'>`
- ☐ e. `<class 'str'>`

Feedback

Your answer is correct.

### Question 5

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

What output will the following code produce?

```
mylist = [[2,4,1], [1,2,3], [2,3,5]]
a=0
b=0
total = 0
while a <= 2:
 while b < 2:
 total += mylist[a][b]
 b += 1
 a += 1
 b = 0
print (total)
```

Select one:

- ☒ a. 14
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

### Question 6

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

- ☒ a. 0
- ☐ b. {1, 2, 3}
- ☐ c. None
- ☐ d. syntax error
- ☐ e. [1, 2, 3]

Feedback

Your answer is correct.

### Question 7

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

What is the output of the following Python program?

```
mylist = [[2,4,1], [1,2,3], [2,3,5]]
total = 0
for sublist in mylist:
 total += sum(sublist)
print(total)
```

Select one:



a. 14



b. 23



c. 0



d. 13

Feedback

Your answer is correct.

### Question 8

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

Which one of the following Python expressions has the value 10?

Select one:



a.  $8 \wedge 2$



b.  $8 ** 2$



c.  $8 +- 2$



d.  $8 += 2$



e.  $8 -+ 2$

Feedback

Your answer is correct.

### Question 9

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

What output will the following code produce?

```
def area(l, w):
 temp = l * w;
 return temp
```

```
l = 4.0
w = 3.25
x = area(l, w)
if (x):
 print (x)
```

Select one:

- ☒ a. 13.0
- ☐ b. 0
- ☐ c. Expression does not evaluate to boolean true
- ☐ d. 13

### Question 10

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

Handling an exception with a try statement is called **throwing** an exception.

Select one:

- ☐ True
- ☒ False



## Question 11

Correct  
Mark 1.00 out of 1.00

### Flag question

Question text

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
print(" ".join(mylist[1::2]))
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☒ c. four score and seven years
- ☐ d. now four is score the and seven time years for

Feedback

Your answer is correct.

## Question 12

Correct  
Mark 1.00 out of 1.00

### Flag question

Question text

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000
- ☐ b. 5 5 5

- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

### Question 13

Correct  
Mark 1.00 out of 1.00

#### Flag question

Question text

What output will the following python commands produce:

```
x = 5
if x % 2 == 0:
 print (x)
else:
 print (x, x%2)
```

Select one:

- ☐ a. 5
- ☒ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

### Question 14

Correct  
Mark 1.00 out of 1.00

#### Flag question

Question text

What output will the following code produce?

```
n = 10
while n != 1:
 print (n,end=' ')
 if n % 2 == 0: # n is even
```

```
n = n // 2
else: # n is odd
 n = n * 3 + 1
```

Select one:

- ☒ a. 10 5 16 8 4 2
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

### Question 15

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159
- ☐ d. 0

### Question 16

Incorrect  
Mark 0.00 out of 1.00

**Flag question**

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What does the program loop over?

Select one:

- ☐ a. Lines in a file
- ☐ b. Lines in a list
- ☐ c. Words in a dictionary
- ☐ d. Words in a list
- ☒ e. Words in a string

Feedback

Your answer is incorrect.

### Question 17

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True
- ☐ False

### Question 18

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

What output will the following Python script produce?

```
def function2(param):
 print (param, param)

def function1(part1, part2):
 cat = part1 + part2
 function2(cat)

chant1 = "See Me "
chant2 = "See You "
function1(chant1, chant2)
```

Select one:

- ☐ a. See You See Me
- ☒ b. See Me See You See Me See You
- ☐ c. See Me See Me See You See You
- ☐ d. None it would generate an error

### Question 19

Incorrect  
Mark 0.00 out of 1.00

### Flag question

Question text

Given a Python dictionary  $d$  and a value  $v$ , it is efficient to find the corresponding key:  $d[k] = v$ .

Select one:

- ☒ True

 False

## Question 20

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Answer 1

formal language

Any one of the languages that people speak that evolved naturally.

Answer 2

natural language

An error that does not occur until the program has started to execute but that prevents the program from continuing.

Answer 3

runtime error

An error in a program that makes it do something other than what the programmer intended.

Answer 4

semantic error

The meaning of a program.

Answer 5

semantics

The structure of a program.

Answer 6

syntax

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

Answer 7

syntax error

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

Answer 8

token

## Question 21

Correct

Mark 1.00 out of 1.00

### Flag question

Question text

For the Python program below, will there be any output, and will the program terminate?

```
while True:
 while 1 > 0:
 break
 print("Got it!")
 break
```

Select one:

- ☐ a. Yes and no
- ☐ b. No and no
- ☒ c. Yes and yes

- ☐ d. No and yes
- ☐ e. Run-time error

Feedback

Your answer is correct.

## Question 22

Incorrect

Mark 0.00 out of 1.00

### Flag question

Question text

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What is word?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☒ d. A string that may have a newline
- ☐ e. A string with no newline

Feedback

Your answer is incorrect.

### Question 23

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

What will the output of this python program be?

```
def test_function(length, width, height):
 print ("the area of the box is ",length*width*height)
 return length*width*height
```

```
l = 12.5
w = 5
h = 2
test_function(l, w, h)
```

Select one:

- ☐ a. The area of the box is 125



☒ b. The area of the box is 125.0

☐ c. The area of the box is 120

☐ d. 125.0

### Question 24

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

Assume that d is a Python dictionary. What does the following Python code produce?

d.items()

Select one:

☐ a. a histogram

☐ b. an inverted dictionary

☒ c. a list of tuples

☐ d. a lookup

☐ e. a reverse lookup

Feedback

Your answer is correct.

### Question 25

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

Boolean expressions control \_\_\_\_\_

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above

### Question 26

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

The elements of a list are immutable.

Select one:

- ☐ True
- ☒ False

### Question 27

Correct

Mark 1.00 out of 1.00

**Flag question**

Question text

What is the output of the Python *method call* below?

"bib".find('b', 1, 2)

Select one:

- ☐ a. 0
- ☒ b. 2

☒ c. -1

☐ d. syntax error

☐ e. 3

Feedback

Your answer is correct.

### Question 28

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

What is the output of the following statements?

```
pi = int(3.14159)
print (pi)
```

Select one:

☒ a. 3

☐ b. 3.0

☐ c. 3.14159

☐ d. 0

### Question 29

Correct  
Mark 1.00 out of 1.00

**Flag question**

Question text

String objects are modified with string slices.

Select one:



True



False



## CS 1101 Review Quiz Attempt review

Programming Fundamentals (University of the People)



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**Started on** Sunday, 28 May 2023, 7:35 PM

**State** Finished

**Completed on** Sunday, 28 May 2023, 8:26 PM

**Time taken** 51 mins 2 secs

**Marks** 26.00/30.00

**Grade** **86.67** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

What is the output of the following statements?

```
pi = float(3.14159)
print (pi)
```

Select one:

- ☐ a. 3
- ☐ b. 3.0
- ☒ c. 3.14159 ✓
- ☐ d. 0

The correct answer is: 3.14159

Question **2**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. `8 ^ 2`
- ☐ b. `8 ** 2`
- ☐ c. `8 +- 2`
- ☒ d. `8 += 2` ✓
- ☐ e. `8 -+ 2`

Your answer is correct.

The correct answer is: `8 += 2`

Question **3**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
n = 10
while n != 1:
 print (n,end=' ')
 if n % 2 == 0: # n is even
 n = n // 2
 else: # n is odd
 n = n * 3 + 1
```

Select one:

- ☒ a. `10 5 16 8 4 2` ✓
- ☐ b. None an error will be displayed
- ☐ c. `8 4 2`
- ☐ d. `9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2`

The correct answer is: `10 5 16 8 4 2`

Question **4**

Correct

Mark 1.00 out of 1.00

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☒ d. tuple ✓
- ☐ e. All of the above

Your answer is correct.

The correct answer is: tuple

Question **5**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What is fin?

Select one:

- ☒ a. A file object ✓
- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Your answer is correct.

The correct answer is: A file object



Question **6**

Correct

Mark 1.00 out of 1.00

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
 count = count + 1
 n = n // 10

print (count)
```

Select one:

- ☒ a. 5 ✓
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question **7**

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

Question **8**

Correct

Mark 1.00 out of 1.00

The Python line below causes "5 dollars" to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **9**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions has the value 64?

Select one:

- ☐ a.  $8^2$
- ☒ b.  $8^{**}2$  ✓
- ☐ c.  $8+-2$
- ☐ d.  $8+=2$
- ☐ e.  $8-+2$

Your answer is correct.

The correct answer is:  $8^{**}2$

Question **10**

Incorrect

Mark 0.00 out of 1.00

In Python, a list of characters is the same as a string.

Select one:

- ☒ True ✖
- ☐ False

The correct answer is 'False'.

Question **11**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
mylist = ["now", "four", "is", "score", "the", "and seven", "time", "years", "for"]
print(" ".join(mylist[1::2]))
```

Select one:

- ☐ a. now is the time
- ☐ b. now is the time for
- ☒ c. four score and seven years ✔
- ☐ d. now four is score the and seven time years for

Your answer is correct.

The correct answer is: four score and seven years

Question **12**

Correct

Mark 1.00 out of 1.00

Boolean expressions control \_\_\_\_\_

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☒ d. all of the above ✓

The correct answer is: all of the above

Question **13**

Correct

Mark 1.00 out of 1.00

String objects are modified with string slices.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **14**

Correct

Mark 1.00 out of 1.00

What is the value of the following Python expression?

`not(True and False)`

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **15**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What is line?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☒ d. A string that may have a newline ✓
- ☐ e. A string with no newline

Your answer is correct.

The correct answer is: A string that may have a newline

Question **16**

Correct

Mark 1.00 out of 1.00

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

Question **17**

Correct

Mark 1.00 out of 1.00

What will the contents of mylist be after the following code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☒ a. [1, 4, 2, 3, 5] ✓
- ☐ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

The correct answer is: [1, 4, 2, 3, 5]

Question **18**

Incorrect

Mark 0.00 out of 1.00

For the Python program below, will there be any output, and will the program terminate?

```
while True:
 while 1 > 0:
 break
 print("Got it!")
 break
```

Select one:

- ☐ a. Yes and no
- ☒ b. No and no ✖
- ☐ c. Yes and yes
- ☐ d. No and yes
- ☐ e. Run-time error

Your answer is incorrect.

The correct answer is: Yes and yes



Question **19**

Correct

Mark 1.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What does the program loop over?

Select one:

- ☒ a. Lines in a file ✓
- ☐ b. Lines in a list
- ☐ c. Words in a dictionary
- ☐ d. Words in a list
- ☐ e. Words in a string

Your answer is correct.

The correct answer is: Lines in a file

Question **20**

Incorrect

Mark 0.00 out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What is word?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☒ c. A list of words ✗
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Your answer is incorrect.

The correct answer is: A string with no newline

Question **21**

Correct

Mark 1.00 out of 1.00

The Python expression 'Unit 6'[-1] has value '6'.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **22**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
print ("%s %d %f" % (5, 5, 5))
```

Select one:

- ☒ a. 5 5 5.000000 ✓
- ☐ b. 5 5 5
- ☐ c. 5 5.000000
- ☐ d. 0 5 5.0

The correct answer is: 5 5 5.000000

Question **23**

Correct

Mark 1.00 out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:
 if d[k] == v:
 return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☒ e. a reverse lookup ✓

Your answer is correct.

The correct answer is: a reverse lookup

Question **24**

Correct

Mark 1.00 out of 1.00

Given the following code, what will the output be?

```
import string
```

```
index = "Ability is a poor man's wealth".find("w")
print(index)
```

Select one:

- ☒ a. 24 ✓
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

The correct answer is: 24

Question **25**

Incorrect

Mark 0.00 out of 1.00

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question **26**

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **27**

Correct

Mark 1.00 out of 1.00

What output will the following code produce?

```
mylist = [[2,4,1], [1,2,3], [2,3,5]]
a=0
b=0
total = 0
while a <= 2:
 while b < 2:
 total += mylist[a][b]
 b += 1
 a += 1
 b = 0
print (total)
```

Select one:

- ☒ a. 14 ✓
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

The correct answer is: 14

Question **28**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):
 if (a == 0):
 print(a)
 else:
 recurse(a)
recurse(1)
```

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☒ d. RuntimeError: maximum recursion depth exceeded ✓

Your answer is correct.

The correct answer is: RuntimeError: maximum recursion depth exceeded

Question **29**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python program?

```
try:
 fin = open('answer.txt')
 fin.write('Yes')
except:
 print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☐ c. Maybe
- ☐ d. Yes  
Maybe
- ☒ e. No ✓  
Maybe

Your answer is correct.

The correct answer is: No  
Maybe

Question **30**

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Jump to...





## CS 1101 Self-Quiz Unit 1 Review

Programming Fundamentals (University of the People)



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**Grade 10.00** out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

A program is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☒ True ✓
- ☐ False

Question **2**

Correct

Mark 1.00 out of 1.00

string is a Python type that represents sequences of numeric values.

Select one:

- ☐ True
- ☒ False ✓

Question **3**

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "print" called?

Select one:

- ☒ a. a function ✓
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

Question **4**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions has the value 64?

Select one:

- ☐ a.  $8 \wedge 2$
- ☒ b.  $8 ** 2$  ✓
- ☐ c.  $8 +- 2$
- ☐ d.  $8 += 2$
- ☐ e.  $8 -+ 2$

Your answer is correct.

Question **5**

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text ">>>" called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☒ c. a prompt ✓
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

Question **6**

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

An error in a program.

bug



The process of finding and removing any of the three kinds of programming errors.

debugging



Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are these kinds of languages.

formal language



A programming language like Python that is designed to be easy for humans to read and write.

high-level language



A program that reads another program and executes it.

interpreter



A programming language that is designed to be easy for a computer to execute; also called machine language or assembly language.

low-level language



Any one of the languages that people speak that evolved naturally.

natural language



To examine a program and analyze the syntactic structure.

parse



A property of a program that can run on more than one kind of computer.

portability



An instruction that causes the Python interpreter to display a value on the screen.

print statement



The process of formulating a problem, finding a solution, and expressing the solution.

problem solving



A sequence of instructions that specifies to a computer actions and computations to be performed.

program



A program stored in a file (usually one that will be interpreted).

script



The structure of a program.

syntax



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



Question **7**

Correct

Mark 1.00 out of 1.00

What is Python's response to the command: `type(0.123)`

Select one:

- ☒ a. `<class 'float'>` ✓
- ☐ b. `<class 'bool'>`
- ☐ c. `SyntaxError: invalid syntax`
- ☐ d. `<class 'int'>`
- ☐ e. `<class 'str'>`

Your answer is correct.

Question **8**

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text `"print(2 + 2)"` called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☒ d. a statement ✓
- ☐ e. a value

Your answer is correct.

Question **9**

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions computes the number of miles in 5 km, where one mile is 1.61 km?

Select one:

- ☐ a.  $5 * 1.61$
- ☒ b.  $5 / 1.61$  ✓
- ☐ c.  $1.61 / 5$
- ☐ d.  $1.61 + 5$
- ☐ e. `miles = "5 km"`

Your answer is correct.

Question **10**

Correct

Mark 1.00 out of 1.00

Programming languages are \_\_\_\_ languages that have been designed to express computations.

Select one:

- ☐ a. informal
- ☐ b. mathematical
- ☒ c. formal ✓
- ☐ d. natural
- ☐ e. logical

Your answer is correct.

◀ Learning Journal Unit 1

Jump to...



## CS 1101 Self-Quiz Unit 5 Attempt review

Programming Fundamentals (University of the People)



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**Started on** Wednesday, 10 May 2023, 11:55 AM

**State** Finished

**Completed on** Wednesday, 10 May 2023, 12:02 PM

**Time taken** 7 mins 8 secs

**Grade** 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

The following Python code succeeds in modifying the first character of the string to "Y".

```
fred = "Hello"
fred[0] = "Y"
```

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **2**

Correct

Mark 1.00 out of 1.00

An *algorithm* is a general process for solving a category of problems.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **3**

Correct

Mark 1.00 out of 1.00

The following Python code illustrates what programming concept?

```
bruce = 5
print (bruce,)
bruce = 7
print (bruce)
```

Select one:

- ☒ a. Reassignment ✓
- ☐ b. Iteration
- ☐ c. Logical operators
- ☐ d. Conditionals

The correct answer is: Reassignment

Question **4**

Correct

Mark 1.00 out of 1.00

For the Python program below, will there be any output, and will the program terminate?

```
while True:
 while 1 > 0:
 break
 print("Got it!")
 break
```

Select one:

- ☐ a. Yes and no
- ☐ b. No and no
- ☒ c. Yes and yes ✓
- ☐ d. No and yes
- ☐ e. Run-time error

Your answer is correct.

The correct answer is: Yes and yes

Question **5**

Correct

Mark 1.00 out of 1.00

Python allows while loops inside while loops and if statements within the body of if statements.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **6**

Correct

Mark 1.00 out of 1.00

The statements inside of a Python loop are known as the \_\_\_\_ of the loop.

Select one:

- ☒ a. body ✓
- ☐ b. expression
- ☐ c. counter
- ☐ d. block

The correct answer is: body

Question **7**

Correct

Mark 1.00 out of 1.00

A Python loop where the terminating condition is never achieved is called \_\_\_\_.

Select one:

- ☒ a. an infinite loop ✓
- ☐ b. a universal loop
- ☐ c. a while loop
- ☐ d. a for .. ever loop

The correct answer is: an infinite loop

Question **8**

Correct

Mark 1.00 out of 1.00

What does Python function subroutine do?

```
def subroutine(n):
 while n > 0:
 print (n,)
 n = n - 1
```

Select one:

- ☐ a. Counts from 10 down to 0 and displays each number
- ☒ b. Counts from n down to 1 and displays each number ✓
- ☐ c. Calculates the sum of n numbers greater than 0
- ☐ d. Calculates the mean of n

The correct answer is: Counts from n down to 1 and displays each number

Question **9**

Correct

Mark 1.00 out of 1.00

What output will the following Python program produce?

```
n = 10
while n != 1:
 print (n,)
 if n % 2 == 0: # n is even
 n = n // 2
 else: # n is odd
 n = n * 3 + 1
```

Select one:

- ☒ a. 10 5 16 8 4 2 ✓
- ☐ b. None an error will be displayed
- ☐ c. 8 4 2
- ☐ d. 9 28 14 7 22 11 34 17 52 26 13 40 20 10 5 16 8 4 2

The correct answer is: 10 5 16 8 4 2

Question **10**

Correct

Mark 1.00 out of 1.00

What is the output of the Python *method call* below?

```
"bib".find('b', 1, 2)
```

Select one:

- ☐ a. 0
- ☐ b. 2
- ☒ c. -1 ✓
- ☐ d. syntax error
- ☐ e. 3

Your answer is correct.

The correct answer is: -1

Jump to...



## CS 1101 Self-Quiz Unit 7 Attempt review

Programming Fundamentals (University of the People)



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**Started on** Sunday, 21 May 2023, 11:16 PM

**State** Finished

**Completed on** Sunday, 21 May 2023, 11:24 PM

**Time taken** 7 mins 41 secs

**Grade** 10.00 out of 10.00 (100%)

Question **1**

Correct

Mark 1.00 out of 1.00

What is the value of the following Python expression?

`(0, 1, 5, 2) > (0, 1.0, 4, 3.1)`

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. False
- ☒ d. True ✓
- ☐ e. syntax error

Your answer is correct.

The correct answer is: True



Question **2**

Correct

Mark 1.00 out of 1.00

What is the output of the Python code below?

```
print(dict().get("no", "help!"))
```

Select one:

- ☐ a. True
- ☐ b. no
- ☐ c. no help!
- ☒ d. help! ✓
- ☐ e. False

Your answer is correct.

The correct answer is: help!

Question **3**

Correct

Mark 1.00 out of 1.00

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

- ☐ a. 0
- ☐ b. {1, 2, 3}
- ☒ c. None ✓
- ☐ d. syntax error
- ☐ e. [1, 2, 3]

Your answer is correct.

The correct answer is: None

Question **4**

Correct

Mark 1.00 out of 1.00

Which of the following types are allowed for Python dictionary **values**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☐ d. tuple
- ☒ e. All of the above ✓

Your answer is correct.

The correct answer is: All of the above

Question **5**

Correct

Mark 1.00 out of 1.00

If you use a Python dictionary in a `for` statement, it traverses the \_\_\_\_ of the dictionary.

Select one:

- ☐ a. values and keys
- ☐ b. indices
- ☐ c. keys and values
- ☐ d. values
- ☒ e. keys ✓

Your answer is correct.

The correct answer is: keys

Question **6**

Correct

Mark 1.00 out of 1.00

What will the contents of mylist be after the following Python code has been executed?

```
>>> mylist = [1, 4, 2, 3]
>>> mylist.append(5)
```

Select one:

- ☒ a. [1, 4, 2, 3, 5] ✓
- ☐ b. [5, 1, 4, 2, 3]
- ☐ c. [null]
- ☐ d. [1, 4, 2, 3]

The correct answer is: [1, 4, 2, 3, 5]

Question **7**

Correct

Mark 1.00 out of 1.00

In the following segment of Python code, what do we call the portion of the statement that follows the dot ( `' .capitalize'` ) ?

```
str.capitalize('maryland')
```

Select one:

- ☐ a. Module
- ☒ b. Method ✓
- ☐ c. Attribute
- ☐ d. Function name

The correct answer is: Method

Question **8**

Correct

Mark 1.00 out of 1.00

Traversal can only be accomplished with the "while" loop.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **9**

Correct

Mark 1.00 out of 1.00

Python dictionaries are mutable.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **10**

Correct

Mark 1.00 out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:
 if d[k] == v:
 return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☒ e. a reverse lookup ✓

Your answer is correct.

The correct answer is: a reverse lookup

◀ Learning Journal Unit 7

Jump to...



## Graded quiz unit 3

Programming Fundamentals (University of the People)



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**Started on** Monday, 19 September 2022, 1:00 PM

**State** Finished

**Completed on** Monday, 19 September 2022, 1:40 PM

**Time taken** 39 mins 24 secs

**Marks** 19.00/20.00

**Grade** 95.00 out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None
- ☐ e. an exception



Your answer is correct.

The correct answer is: the special value None




Question **2**

Incorrect

Mark 0.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☒ True 
- ☐ False

The correct answer is 'False'.


Question **3**

Correct

Mark 1.00 out of 1.00

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:

- ☒ True 
- ☐ False

The correct answer is 'True'.


Question **4**

Correct

Mark 1.00 out of 1.00

In Python, the expression "a\*\*(b\*\*c)" is the same as "(a\*\*b)\*\*c".

Select one:

- ☐ True
- ☒ False 

The correct answer is 'False'.





## Question 5

Correct

Mark 1.00 out of 1.00

In Python, the '+' operator can be used with numbers and with strings. What is a property that number addition has, but string concatenation **does not**?

Select one:

- ☐ a. Numeric addition is allowed on right-hand side of assignment statement.
- ☐ b. More than one numeric addition per expression is allowed.
- ☒ c. The expression value does not depend on the order of numeric addition operands. ✓
- ☐ d. Numeric addition is fast to execute.
- ☐ e. Numeric addition needs two operands.

Your answer is correct.

The correct answer is: The expression value does not depend on the order of numeric addition operands.

## Question 6

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.



## Question 7

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print (1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0
- ☐ d. Error invalid type



The correct answer is: 1 0 0


## Question 8

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True 
- ☐ False

The correct answer is 'True'.



## Question 9

Correct

Mark 1.00 out of 1.00

A **program** is a sequence of instructions that specifies how to perform a computation.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 10

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17



Question **11**

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "4" called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☒ e. a value



Your answer is correct.

The correct answer is: a value

Question **12**

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable



Your answer is correct.

The correct answer is: argument



Question **13**

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **14**

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = (60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091



Question **15**

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):
 if (a == 1):
 print(a)
 else:
 recurse(a)
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded



Your answer is correct.

The correct answer is: 1



Question **16**

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
```

```
4
```

What is the text "print" called?

Select one:

- ☒ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value



Your answer is correct.

The correct answer is: a function



## Question 17

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

To join two operands end-to-end.

concatenate



What the Python interpreter does to an expression to find its value.

evaluate



A combination of variables, operators, and values that represents a single result value.

expression



A reserved word that is used by the interpreter to parse programs.

keyword



A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

operator



A unit of code that the Python interpreter can execute.

statement



A name that refers to a value.

variable



The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

## Question 18

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a **syntax error**?

Select one:

- ☐ a.  $2 \wedge 2$
- ☐ b.  $2 ** 2$
- ☐ c.  $2 +- 2$
- ☒ d.  $2 += 2$
- ☐ e.  $2 -+ 2$



Your answer is correct.

The correct answer is:  $2 += 2$





Question **19**

Correct

Mark 1.00 out of 1.00

Which of the following is an **invalid** Python assignment statement?

Select one:

- ☐ a. `a = b = 123`
- ☒ b. `'3' = 3`
- ☐ c. `x = int("123")`
- ☐ d. `y = None`
- ☐ e. `z = "hi" * 10`



Your answer is correct.

The correct answer is: `'3' = 3`



Question **20**

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

[◀ Self-Quiz Unit 3](#)

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[Learning Guide Unit 4 ▶](#)



## Quiz with correct answers

Programming Fundamentals (University of the People)



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Marks 20.00/20.00  
Grade 100.00 out of 100.00

#### Question 1

Which one of the following Python expressions generates a syntax error?

Correct

Mark 1.00 out of

1.00

Select one: Flag question

☐ a 242

☐ b .. 22

☐ c 24-2

☐ d. 24-2 -

☐ e 2-42

☐ Ne eT aolcae

The correct answer is: 2 += 2

#### Question 2

Match concepts with their definition! Correct

Mark 1.00 out of

1.00

☐ sarc concatenate ☐ Flag question

To join two operands end-to-end. ☐ ey

☐ Vv

☐ F , ge evaluate >

What the Python interpreter does to an expression to find its value.

☐ Vv

A combination of variables, operators, and values that represents a = expression +

single result value. ☐ v

☐ m 7 keyword +

A reserved word that is used by the interpreter to parse programs. ☐ ale

☐ Vv

A special symbol that represents a simple computation like operator > addition, multiplication, or string concatenation. ☐ v

= ss statement +

A unit of code that the Python interpreter can execute.

☐ Vv

variable +

A name that refers to a value.

☐ Vv

The correct answer is: To join two operands end-to-end. > concatenate,

What the Python

interpreter does to an expression to find its value. + evaluate, A combination of variables, operators, and values that represents a single result value. > expression, A reserved word that is used by the interpreter to parse programs. - keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. > operator, A unit of code that the Python interpreter can execute. > statement, A name  
BECO] Me CLL)

Question 3

A program is a sequence of instructions that specifies how to perform a computation. Correct

Mark 1.00 out of

1.00

Select one: Flag question

☒ True v

☐ False

The correct answer is 'True'.

Question 4

Which of the following is an invalid Python assignment statement? Correct

Mark 1.00 out of

1.00

Select one: ¥ Flag question

0a a=b=123

0b 3 =

0c x= int('123")

☒ d. y=None

0e z="hi"\*10

Ne eT eeao lca

The correct answer is: '3

Question 5

Match concepts with their definition! Correct

Mark 1.00 out of

1.00

Any one of the languages that people have designed for specific \_ purposes, such as representing mathematical ideas or computer formal language

F Flag question

o

programs; all programming languages are this kind of yy languages.

Any one of the languages that people speak that evolved natural language + naturally. wv.

An error that does not occur until the program has started to runtime  
 error +  
 execute but that prevents the program from continuing. wv.  
 An error in a program that makes it do something other than semanticerror  
 +  
 what the programmer intended. wv.  
 z semantics +  
 The meaning of a program.  
 v  
 syntax +  
 The structure of a program.  
 v  
 An error in a program that makes it impossible to parse – and syntax  
 error +  
 therefore impossible to interpret. wv.  
 One of the basic elements of the syntactic structure of a token +  
 program, analogous to a word in a natural language. wv

The correct answer is: Any one of the languages that people have designed  
 for specific  
 purposes, such as representing mathematical ideas or computer programs;  
 all  
 programming languages are this kind of languages. > formal language, Any  
 one of the  
 languages that people speak that evolved naturally. > natural language,  
 An error that  
 does not occur until the program has started to execute but that prevents  
 the program  
 from continuing. – runtime error, An error in a program that makes it do  
 something  
 other than what the programmer intended. > semantic error, The meaning of  
 a program.

– semantics, The structure of a program. – syntax, An error in a program  
 that makes it  
 impossible to parse – and therefore impossible to interpret. > syntax  
 error, One of the  
 basic elements of the syntactic structure of a program, analogous to a  
 word in a natural  
 language. > token

#### Question 6

s : Correct

What is the output of the following Python statements? en

Mark 1.00 out of

```
percentage = (60 * 100) // 55 1.00
```

```
print (percentage) ¥ Flag question
```

Select one:

a. percentage  
© b. 109 v  
~ 109.0909090909091

© d. 109.0

Your answer is correct.

The correct answer is: 109

#### Question 7

When a Python function is called, inside the function, the arguments are assigned to Correct variables called parameters. Mark 1.00 out of 1.00

¥ Flag question

Select one:

True ¥

© False

Mbit Recol cela a

#### Question 8

Python functions may or may not take arguments and may or may not return a result. Correct  
Mark 1.00 out of 1.00

Select one: Flag question

© True v

© False

The correct answer is 'True'.

#### Question 9

What do we call the value provided to a function when the function is called (which is Correct assigned to the corresponding parameter in the function)? Mark 1.00 out of 1.00

¥ Flag question

Select one:

- © a. argument v
- © b. return value

© c. method

~~ d. \_ the special value None

© e. global variable

Your answer is correct.

The correct answer is: argument

#### Question 10

The % or modulus operator returns the remainder from dividing two numbers. Correct

Mark 1.00 out of

1.00

Select one: ¥ Flag question

© True v

© False

The correct answer is 'True'.

#### Question 11

In Python, the expression "a\*\*(b\*\*c)" is the same as "(a\*\*b)\*\*c". Correct

Mark 1.00 out of

1.00

Select one: Flag question

© True

© False W

Bi Relat (ea

#### Question 12

When defining a Python function that has no parameters, the parentheses that follow the Correct

function's name are optional. Mark 1.00 out of

1.00

F Flag question

Select one:

© True

© False v

Bi Reel



Question 13

Feedback 2 Correct

Consider the following text from a Python interpreter. a

. Mark 1.00 out of

```
>>> print(2 + 2) 1.00
```

Flag question

What is the text "print" called?

Select one:

☐ a. a function v

☐ b. an operator

☐ c. a prompt

☐ d. a statement

0 of 1 value

Your answer is correct.

The correct answer is: a function

Question 14

What output will the following Python statements produce? Correct

Mark 1.00 out of

```
>>> percentage = (60.0 * 100.0) / 55.0 1.00
```

```
>>> print (percentage) Flag question
```

Select one:

☐ a. percentage

☐ b. 109

☐ c. 109.0909090909091 i

☐ d. 109.0

The correct answer is: 109.0909090909091

Question 15

Learning to debug can be frustrating, but it is a valuable skill that is useful for many Correct

activities beyond programming. Mark 1.00 out of

1.00

Flag question

Select one:

True ¥

© False

Mbit Recol cela a

Question 16

F e 2 c

Consider the following text from a Python interpreter. sha

. Mark 1.00 out of

```
>>> print(2 + 2) 1.00
```

zs ¥ Flag question

What is the text "+" called?

Select one:

© a. a function

© b. an operator v

© ce aprompt

© d. a statement

Oe avalue

Your answer is correct.

The correct answer is: an operator

Question 17

What output will the following Python statement produce? Correct

Mark 1.00 out of

```
>>> print (2 * (3-1)) 1.00
```

¥ Flag question

Select one:

Oa 6

Ob. 5

@a 4 -

Od. 3

The correct answer is: 4

Question 18

. . Correct

What is the output of the following Python statements? ae

Mark 1.00 out of

```
def recurse(a): 1.00
```

```
if (a == 1):
 print(a)
else:
```

F Flag question

```
recurse(a)
```

```
recurse(1)
```

Select one:

☐ a 0

☐ b 1 ~

☐ c no output

☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

Question 19

Using keywords for variable names will result in a Correct

Mark 1.00 out of

1.00

Select one: Flag question

☐ a. runtime error

☐ b. compile error

☐ c. syntax error «

☐ d. semantic error

The correct answer is: syntax error

Question 20

: E c

Consider the following text from a Python interpreter. orrect

. Mark 1.00 out of

```
>>> print(2 + 2) 1.00
```

4 F Flag question

What is the text "4" called?

Select one:

- © a. a function
- © b. an operator
- © c. a prompt
- © d. a statement

" e. a value ¥

Your answer is correct.

The correct answer is: a value

Finish review





## Review Quiz 1 - Quiz 1

Fundamental Programming (University of the People)



Scan to open on Studocu

[Dashboard](#) / [My courses](#) / [CS 1101-01 - AY2022-T5](#) / [Final Exam \(Days 1 - 4\)](#) / [Review Quiz](#)**Started on** Thursday, 11 August 2022, 8:53 AM**State** Finished**Completed on** Thursday, 11 August 2022, 8:53 AM**Time taken** 9 secs**Marks** 0.00/30.00**Grade** 0.00 out of 100.00Question **1**

Not answered

Marked out of 1.00

Consider the following Python program.

```
fin = open('words.txt')
for line in fin:
 word = line.strip()
 print(word)
```

What is fin?

Select one:

- ☐ a. A file object
- ☐ b. A list of characters
- ☐ c. A list of words
- ☐ d. A string that may have a newline
- ☐ e. A string with no newline

Your answer is incorrect.

The correct answer is: A file object



Question **2**

Not answered

Marked out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.

Question **3**

Not answered

Marked out of 1.00

In Python, a list of characters is the same as a string.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.





## Question 4

Not answered

Marked out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

Any one of the languages that people speak that evolved naturally.

An error that does not occur until the program has started to execute but that prevents the program from continuing.

An error in a program that makes it do something other than what the programmer intended.

The meaning of a program.

The structure of a program.

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token



Question **5**

Not answered

Marked out of 1.00

Which of the following types are allowed for Python dictionary **keys**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☐ d. tuple
- ☐ e. All of the above

Your answer is incorrect.

The correct answer is: tuple

Question **6**

Not answered

Marked out of 1.00

What is the value of the following Python expression?

`not(True and False)`

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.



## Question 7

Not answered

Marked out of 1.00

: To create a new object that has the same value as an existing object is know as creating an alias.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.

## Question 8

Not answered

Marked out of 1.00

What is the output of the following Python program?

```
try:
 fin = open('answer.txt')
 fin.write('Yes')
except:
 print('No')
print('Maybe')
```

Select one:

- ☐ a. Yes
- ☐ b. No
- ☐ c. Maybe
- ☐ d. Yes  
Maybe
- ☐ e. No  
Maybe

Your answer is incorrect.

The correct answer is: No  
Maybe



Question **9**

Not answered

Marked out of 1.00

If you assign the result a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☐ d. the special value None
- ☐ e. an exception

Your answer is incorrect.

The correct answer is: the special value None

Question **10**

Not answered

Marked out of 1.00

What output will the following code produce?

```
mylist = [[2,4,1], [1,2,3], [2,3,5]]
a=0
b=0
total = 0
while a <= 2:
 while b < 2:
 total += mylist[a][b]
 b += 1
 a += 1
 b = 0
print (total)
```

Select one:

- ☐ a. 14
- ☐ b. 23
- ☐ c. 0
- ☐ d. 13

The correct answer is: 14



Question **11**

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
n = 10000
count = 0
while n:
 count = count + 1
 n = n // 10

print (count)
```

Select one:

- ☐ a. 5
- ☐ b. 0
- ☐ c. 10000
- ☐ d. 1000

The correct answer is: 5

Question **12**

Not answered

Marked out of 1.00

: The following code:

```
for fruit in ["banana", "apple", "quince"]:
 print (fruit)
```

will produce the following output:

```
banana
apple
quince
```

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.



Question **13**

Not answered

Marked out of 1.00

For the Python program below, will there be any output, and will the program terminate?

```
while True:
 while 1 > 0:
 break
 print("Got it!")
 break
```

Select one:

- ☐ a. Yes and no
- ☐ b. No and no
- ☐ c. Yes and yes
- ☐ d. No and yes
- ☐ e. Run-time error

Your answer is incorrect.

The correct answer is: Yes and yes



Question **14**

Not answered

Marked out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
d.items()
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Your answer is incorrect.

The correct answer is: a list of tuples

Question **15**

Not answered

Marked out of 1.00

Which one of the following Python expressions has the value 10?

Select one:

- ☐ a.  $8 \wedge 2$
- ☐ b.  $8 ** 2$
- ☐ c.  $8 +- 2$
- ☐ d.  $8 += 2$
- ☐ e.  $8 -+ 2$

Your answer is incorrect.

The correct answer is:  $8 \wedge 2$



Question **16**

Not answered

Marked out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
for k in d:
 if d[k] == v:
 return k
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Your answer is incorrect.

The correct answer is: a reverse lookup





## Question 17

Not answered

Marked out of 1.00

Assume that d is a Python dictionary. What does the following Python code produce?

```
result = dict()
for key in d:
 val = d[key]
 if val not in inverse:
 result[val] = [key]
 else:
 result[val].append(key)
```

Select one:

- ☐ a. a histogram
- ☐ b. an inverted dictionary
- ☐ c. a list of tuples
- ☐ d. a lookup
- ☐ e. a reverse lookup

Your answer is incorrect.

The correct answer is: an inverted dictionary

## Question 18

Not answered

Marked out of 1.00

Given the following code, what will the output be?

```
import string

index = "Ability is a poor man's wealth".find("w")
print(index)
```

Select one:

- ☐ a. 24
- ☐ b. 0
- ☐ c. 23
- ☐ d. -1

The correct answer is: 24



Question **19**

Not answered

Marked out of 1.00

What output will the following python commands produce:

```
x=1
y=2
if x == y:
 print(x, "and", y, "are equal")
else:
 if x < y:
 print(x, "is less than", y)
 else:
 print(x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☐ d. 2 is greater than 1

The correct answer is: 1 is less than 2

Question **20**

Not answered

Marked out of 1.00

A development approach that that is intended to avoid a lot of debugging by only adding and testing small amounts of code at a time is called.

Select one:

- ☐ a. structured development
- ☐ b. incremental development
- ☐ c. unit testing
- ☐ d. Systems development life cycle

The correct answer is: incremental development



Question **21**

Not answered

Marked out of 1.00

Which one of the following Python expressions generates a syntax error?

Select one:

- ☐ a. `8 ^ 2`
- ☐ b. `8 ** 2`
- ☐ c. `8 +- 2`
- ☐ d. `8 += 2`
- ☐ e. `8 -+ 2`

Your answer is incorrect.

The correct answer is: `8 += 2`

Question **22**

Not answered

Marked out of 1.00

Given a Python dictionary `d` and a value `v`, it is efficient to find the corresponding key: `d[k] = v`.

Select one:

- ☐ True
- ☐ False

The correct answer is 'False'.



Question **23**

Not answered

Marked out of 1.00

What is the output of the following Python statements?

```
def recurse(a):
 if (a == 0):
 print(a)
 else:
 recurse(a)
recurse(1)
```

Select one:

- ☐ a. 0
- ☐ b. 1
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is incorrect.

The correct answer is: RuntimeError: maximum recursion depth exceeded

Question **24**

Not answered

Marked out of 1.00

The Python line below causes "5 dollars" to be printed.

```
print('%d %s' % (5, 'dollars'))
```

Select one:

- ☐ True
- ☐ False

The correct answer is 'True'.



Question **25**

Not answered

Marked out of 1.00

What output will the following Python 3 program produce?

```
x = 5
if x % 2 == 0:
 print(x)
else:
 print(x, x%2)
```

Select one:

- ☐ a. 5
- ☐ b. 5 1
- ☐ c. 2
- ☐ d. 5 0

The correct answer is: 5 1

Question **26**

Not answered

Marked out of 1.00

Which of the following types are allowed for Python dictionary **values**?

Select one:

- ☐ a. dictionary
- ☐ b. list
- ☐ c. list of dictionaries
- ☐ d. tuple
- ☐ e. all of the above

Your answer is incorrect.

The correct answer is: all of the above



Question **27**

Not answered

Marked out of 1.00

What is the output of the Python code below?

```
my_list = [3, 2, 1]
print(my_list.sort())
```

Select one:

- ☐ a. 0
- ☐ b. {1, 2, 3}
- ☐ c. None
- ☐ d. syntax error
- ☐ e. [1, 2, 3]

Your answer is incorrect.

The correct answer is: None

Question **28**

Not answered

Marked out of 1.00

A loop where the terminating condition is never achieved is called an \_\_\_\_\_

Select one:

- ☐ a. infinite loop
- ☐ b. universal loop
- ☐ c. while loop
- ☐ d. for .. ever loop

The correct answer is: infinite loop



Question **29**

Not answered

Marked out of 1.00

Boolean expressions control \_\_\_\_\_

Select one:

- ☐ a. recursion
- ☐ b. conditional execution
- ☐ c. alternative execution
- ☐ d. all of the above

The correct answer is: all of the above

Question **30**

Not answered

Marked out of 1.00

Which one of the following Python expressions has the value 64?

Select one:

- ☐ a.  $8 \wedge 2$
- ☐ b.  $8 ** 2$
- ☐ c.  $8 + - 2$
- ☐ d.  $8 += 2$
- ☐ e.  $8 -- 2$

Your answer is incorrect.

The correct answer is:  $8 ** 2$ [◀ Learning Guide Unit 9](#)

Jump to...

Final Exam 

|                     |                                |
|---------------------|--------------------------------|
| <b>Started on</b>   | Wednesday, 1 May 2024, 2:36 PM |
| <b>State</b>        | Finished                       |
| <b>Completed on</b> | Wednesday, 1 May 2024, 3:03 PM |
| <b>Time taken</b>   | 27 mins 31 secs                |
| <b>Marks</b>        | 20.00/20.00                    |
| <b>Grade</b>        | <b>100.00</b> out of 100.00    |

## Question 1

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):
 if (a == 1):
 print(a)
 else:
 recurse(a)
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1



## Question 2

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

To join two operands end-to-end.

concatenate



What the Python interpreter does to an expression to find its value.

evaluate



A combination of variables, operators, and values that represents a single result value.

expression



A reserved word that is used by the interpreter to parse programs.

keyword



A special symbol that represents a simple computation like addition, multiplication, or string concatenation.

operator



A unit of code that the Python interpreter can execute.

statement



A name that refers to a value.

variable



The correct answer is: To join two operands end-to-end. → concatenate, What the Python interpreter does to an expression to find its value. → evaluate, A combination of variables, operators, and values that represents a single result value. → expression, A reserved word that is used by the interpreter to parse programs. → keyword, A special symbol that represents a simple computation like addition, multiplication, or string concatenation. → operator, A unit of code that the Python interpreter can execute. → statement, A name that refers to a value. → variable

## Question 3

Correct

Mark 1.00 out of 1.00

Which of the following is an **invalid** Python assignment statement?

Select one:

- ☐ a. `a = b = 123`
- ☒ b. `'3' = 3` ✓
- ☐ c. `x = int("123")`
- ☐ d. `y = None`
- ☐ e. `z = "hi" * 10`

Your answer is correct.

The correct answer is: `'3' = 3`

## Question 4

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print(1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

## Question 6

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

## Question 7

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language



Any one of the languages that people speak that evolved naturally.

natural language



An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error



An error in a program that makes it do something other than what the programmer intended.

semantic error



The meaning of a program.

semantics



The structure of a program.

syntax



An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error



One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token



The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token

## Question 8

Correct

Mark 1.00 out of 1.00

In Python, the '+' operator can be used with numbers and with strings. What is a property that number addition has, but string concatenation **does not**?

Select one:

- ☐ a. Numeric addition is allowed on right-hand side of assignment statement.
- ☐ b. More than one numeric addition per expression is allowed.
- ☒ c. The expression value does not depend on the order of numeric addition operands. ✓
- ☐ d. Numeric addition is fast to execute.
- ☐ e. Numeric addition needs two operands.

Your answer is correct.

The correct answer is: The expression value does not depend on the order of numeric addition operands.

## Question 9

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print (2*3-1)
```

Select one:

- ☐ a. 6
- ☒ b. 5 ✓
- ☐ c. 4
- ☐ d. 3

The correct answer is: 5

## Question 10

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

## Question 11

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = (60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

## Question 12

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 13

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator

## Question 14

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "4" called?

Select one:

- ☐ a. a function
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☒ e. a value ✓

Your answer is correct.

The correct answer is: a value

## Question 15

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print (n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

## Question 16

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 17

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

## Question 18

Correct

Mark 1.00 out of 1.00

In Python, the expression `"a**(b**c)"` is the same as `"(a**b)**c"`.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

## Question 19

Correct

Mark 1.00 out of 1.00

Programmers generally choose names for their variables that are meaningful and document what the variable is used for.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 20

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.



**Started on** Tuesday, 30 April 2024, 5:55 AM**State** Finished**Completed on** Tuesday, 30 April 2024, 6:02 AM**Time taken** 7 mins 6 secs**Marks** 15.00/15.00**Grade** 100.00 out of 100.00

## Question 1

Correct

Mark 1.00 out of 1.00

Successful students tend to log in and participate in class:

- ☐ a. Once per week
- ☐ b. Twice per week
- ☒ c. At least two to three times per week ✓
- ☐ d. Never

Your answer is correct.

The correct answer is:

At least two to three times per week

## Question 2

Correct

Mark 1.00 out of 1.00

Links to the Learning Resource Center (LRC) can be found:

- ☒ a. In the "Resources" drop down menu of Moodle ✓
- ☒ b. In the "Student Toolkit" on the right hand side of Moodle ✓
- ☐ c. In your Textbook
- ☐ d. In your Instructor's Discussion Forum Posts

Your answer is correct.

The correct answers are:

In the "Resources" drop down menu of Moodle,

In the "Student Toolkit" on the right hand side of Moodle

**Question 3**

Correct

Mark 1.00 out of 1.00

To find the UoPeople code of conduct, students should:

Select one:

- ☒ a. Read the Academic Policies Section of the UoPeople Catalog ✓
- ☐ b. Ask their Academic Advisor
- ☐ c. Ask the course instructor
- ☐ d. Check the syllabus

The correct answer is: Read the Academic Policies Section of the UoPeople Catalog

**Question 4**

Correct

Mark 1.00 out of 1.00

The course catalog has a lot of very important information in it, and is basically a student's guide to the University. Where can students find a copy of the course catalog to save and refer to regularly?

Select one:

- ☐ a. They should ask their Academic Advisor to email them a copy of the course catalog.
- ☐ b. They should find it in one of their textbooks.
- ☒ c. They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page. ✓
- ☐ d. All of the above.

The correct answer is: They should find it on their student home page, (where their courses are listed), under the "Links" tab at the top of the page.

**Question 5**

Correct

Mark 1.00 out of 1.00

A list of courses in each degree program can be found in

- ☒ a. The University Catalog ✓
- ☐ b. Your Course Syllabus
- ☐ c. An Email from your Instructor
- ☐ d. Moodle Messenger

Your answer is correct.

The correct answer is:

The University Catalog

**Question 6**

Correct

Mark 1.00 out of 1.00

To write a successful discussion post, students should:

Select one:

- ☒ a. Use a writing process similar to writing papers ✓
- ☐ b. Use informal, non-academic language
- ☐ c. Only discuss personal experience with the topic
- ☐ d. Ignore citation rules because it's a discussion

The correct answer is: Use a writing process similar to writing papers

**Question 7**

Correct

Mark 1.00 out of 1.00

In writing, using all capital letters is considered to be:

Select one:

- ☐ a. Enthusiastic
- ☒ b. Screaming ✓
- ☐ c. Amusing
- ☐ d. Whimsical

The correct answer is: Screaming

**Question 8**

Correct

Mark 1.00 out of 1.00

In Chapter 2 of *College Success*, we learned about Goal Setting. The reading states that goals should be:

- ☐ a. Easy to achieve, realistic, and have a timeframe
- ☒ b. Realistic, have a timeframe, and specific ✓
- ☐ c. Popular with others, specific, and realistic
- ☐ d. East to achieve, popular, and realistic

Your answer is correct.

The correct answer is:

Realistic, have a timeframe, and specific

**Question 9**

Correct

Mark 1.00 out of 1.00

Replies to peers' discussion forum posts should be:

- ☐ a. At least 100 words
- ☐ b. Move the discussion forward
- ☐ c. Contain both positive comments and suggestions for improvement
- ☒ d. All of the above ✓

Your answer is correct.

The correct answer is:

All of the above

**Question 10**

Correct

Mark 1.00 out of 1.00

\_\_\_\_\_ is a platform that we suggest for UNIV students to connect with other new students

- ☐ a. Facebook
- ☐ b. Instagram
- ☒ c. Yammer ✓
- ☐ d. Whats App

Your answer is correct.

The correct answer is:

Yammer

**Question 11**

Correct

Mark 1.00 out of 1.00

True or False: The Learning Journal is a document that only you and your Instructor can view

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

**Question 12**

Correct

Mark 1.00 out of 1.00

According to Chapter one of *College Success*, successful students possess these traits:

- ☐ a. They avoid asking questions of their instructors.
- ☒ b. They develop their writing skills ✓
- ☒ c. They stay motivated ✓
- ☐ d. They eat fast food, so that they have more time for studying.

Your answer is correct.

The correct answers are:

They develop their writing skills,

They stay motivated

**Question 13**

Correct

Mark 1.00 out of 1.00

True or False: According to Chapter 12 of *College Success*, there is a difference between a career and a job.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

**Question 14**

Correct

Mark 1.00 out of 1.00

True or False: Discussion posts facilitate discussions similar to on-site class discussions.

Select one:

☒ True ✓

☐ False

The correct answer is 'True'.

**Question 15**

Correct

Mark 1.00 out of 1.00

According to Chapter Two of *College Success* some tips for staying motivated include:

- ☒ a. Planning ahead to avoid last minute pressures ✓
- ☒ b. Keeping a positive attitude ✓
- ☒ c. Keeping your eye on long term goals ✓
- ☐ d. Multi-tasking

Your answer is correct.

The correct answers are:

Planning ahead to avoid last minute pressures,

Keeping a positive attitude,

Keeping your eye on long term goals

|                     |                                  |
|---------------------|----------------------------------|
| <b>Started on</b>   | Tuesday, 30 April 2024, 12:11 AM |
| <b>State</b>        | Finished                         |
| <b>Completed on</b> | Tuesday, 30 April 2024, 12:30 AM |
| <b>Time taken</b>   | 19 mins 40 secs                  |
| <b>Marks</b>        | 20.00/20.00                      |
| <b>Grade</b>        | <b>100.00</b> out of 100.00      |

## Question 1

Correct

Mark 1.00 out of 1.00

In Python, the expression "a\*\*(b\*\*c)" is the same as "(a\*\*b)\*\*c".

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

## Question 2

Correct

Mark 1.00 out of 1.00

What output will the following Python statement produce?

```
>>> print ((1+1)**(5-2))
```

Select one:

- ☐ a. 16
- ☒ b. 8 ✓
- ☐ c. 4
- ☐ d. 2

The correct answer is: 8

### Question 3

Correct

Mark 1.00 out of 1.00

What do we call the value provided to a function when the function is called (which is assigned to the corresponding **parameter** in the function)?

Select one:

- ☒ a. argument ✓
- ☐ b. return value
- ☐ c. method
- ☐ d. the special value None
- ☐ e. global variable

Your answer is correct.

The correct answer is: argument

### Question 4

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "+" called?

Select one:

- ☐ a. a function
- ☒ b. an operator ✓
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: an operator



## Question 5

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> percentage = (60.0 * 100.0) / 55.0
>>> print (percentage)
```

Select one:

- ☐ a. percentage
- ☐ b. 109
- ☒ c. 109.0909090909091 ✓
- ☐ d. 109.0

The correct answer is: 109.0909090909091

## Question 6

Correct

Mark 1.00 out of 1.00

Learning to debug can be frustrating, but it is a valuable skill that is useful for many activities beyond programming.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 7

Correct

Mark 1.00 out of 1.00

Which one of the following Python expressions generates a **syntax error**?

Select one:

- ☐ a. 2 ^ 2
- ☐ b. 2 \*\* 2
- ☐ c. 2 +- 2
- ☒ d. 2 += 2 ✓
- ☐ e. 2 -+ 2

Your answer is correct.

The correct answer is: 2 += 2

## Question 8

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
def recurse(a):
 if (a == 1):
 print(a)
 else:
 recurse(a)
recurse(1)
```

Select one:

- ☐ a. 0
- ☒ b. 1 ✓
- ☐ c. no output
- ☐ d. RuntimeError: maximum recursion depth exceeded

Your answer is correct.

The correct answer is: 1

## Question 9

Correct

Mark 1.00 out of 1.00

What is the output of the following Python 3 statements?

```
x=2
y=1
if x == y:
 print (x, "and", y, "are equal")
else:
 if x < y:
 print (x, "is less than", y)
 else:
 print (x, "is greater than", y)
```

Select one:

- ☐ a. 1 and 2 are equal
- ☐ b. 1 is less than 2
- ☐ c. 1 is greater than 2
- ☒ d. 2 is greater than 1 ✓

Your answer is correct.

The correct answer is: 2 is greater than 1

## Question 10

Correct

Mark 1.00 out of 1.00

Python functions may or may not take arguments and may or may not return a result.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 11

Correct

Mark 1.00 out of 1.00

Consider the following text from a Python interpreter.

```
>>> print(2 + 2)
4
```

What is the text "print" called?

Select one:

- ☒ a. a function ✓
- ☐ b. an operator
- ☐ c. a prompt
- ☐ d. a statement
- ☐ e. a value

Your answer is correct.

The correct answer is: a function

## Question 12

Correct

Mark 1.00 out of 1.00

When defining a Python function that has no parameters, the parentheses that follow the function's name are optional.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

## Question 13

Correct

Mark 1.00 out of 1.00

What is the output of the following Python statements?

```
percentage = (60 * 100) // 55
print (percentage)
```

Select one:

- ☐ a. percentage
- ☒ b. 109 ✓
- ☐ c. 109.0909090909091
- ☐ d. 109.0

Your answer is correct.

The correct answer is: 109

## Question 14

Correct

Mark 1.00 out of 1.00

What output will the following Python 3 statement produce?

```
>>> print (1,000,000)
```

Select one:

- ☐ a. 1.0
- ☐ b. 1,000,000
- ☒ c. 1 0 0 ✓
- ☐ d. Error invalid type

The correct answer is: 1 0 0

## Question 15

Correct

Mark 1.00 out of 1.00

The % or modulus operator returns the remainder from dividing two numbers.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 16

Correct

Mark 1.00 out of 1.00

If you assign the result of calling a void function to a variable in Python, you get:

Select one:

- ☐ a. an empty string
- ☐ b. the value -1
- ☐ c. the value 0
- ☒ d. the special value None ✓
- ☐ e. an exception

Your answer is correct.

The correct answer is: the special value None

## Question 17

Correct

Mark 1.00 out of 1.00

Using keywords for variable names will result in a \_\_\_\_\_

Select one:

- ☐ a. runtime error
- ☐ b. compile error
- ☒ c. syntax error ✓
- ☐ d. semantic error

The correct answer is: syntax error

## Question 18

Correct

Mark 1.00 out of 1.00

What output will the following Python statements produce?

```
>>> n = 17
>>> print(n)
```

Select one:

- ☐ a. 0
- ☐ b. 17.0
- ☐ c. n
- ☒ d. 17 ✓

The correct answer is: 17

## Question 19

Correct

Mark 1.00 out of 1.00

When a Python function is called, inside the function, the arguments are assigned to variables called **parameters**.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

## Question 20

Correct

Mark 1.00 out of 1.00

Match concepts with their definition!

Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages.

formal language

✓

Any one of the languages that people speak that evolved naturally.

natural language

✓

An error that does not occur until the program has started to execute but that prevents the program from continuing.

runtime error

✓

An error in a program that makes it do something other than what the programmer intended.

semantic error

✓

The meaning of a program.

semantics

✓

The structure of a program.

syntax

✓

An error in a program that makes it impossible to parse — and therefore impossible to interpret.

syntax error

✓

One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language.

token

✓

The correct answer is: Any one of the languages that people have designed for specific purposes, such as representing mathematical ideas or computer programs; all programming languages are this kind of languages. → formal language, Any one of the languages that people speak that evolved naturally. → natural language, An error that does not occur until the program has started to execute but that prevents the program from continuing. → runtime error, An error in a program that makes it do something other than what the programmer intended. → semantic error, The meaning of a program. → semantics, The structure of a program. → syntax, An error in a program that makes it impossible to parse — and therefore impossible to interpret. → syntax error, One of the basic elements of the syntactic structure of a program, analogous to a word in a natural language. → token