

1. Question 1

Match the following examples to the expected result

Prompts

Submitted Answers

1. 14//4

3

2. 14%4

2

3. 14.0/4

3.5

2. Question 2

What sequence will this generate? range(5, 10)

1.

5, 6, 7, 8, 9

2.

6, 7, 8, 9, 10

3.

5, 6, 7, 8, 9, 10

4.

6, 7, 8, 9

3. Question 3

Which of these loops will run 10 times?

1. i = 0

while i < 9:

do something

i += 1

2.

i = 0

while i <= 10:

```
# do something
```

```
i += 1
```

3.

```
i = 0
```

```
while i < 10:
```

```
# do something
```

```
i += 1
```

4.

```
i = 0
```

```
while i < 11:
```

```
# do something
```

```
i += 1
```

4. Question 4

```
fruit = {"Banana": "Yellow", "Apple": "Red", "Watermelon": "Green"}
```

Which code segment prints only the fruit colours stored in the fruit?

1.

```
for item in fruit.items():
```

```
print(item)
```

2.

```
for item in fruit.values():
```

```
print(item)
```

3.

```
print(fruit)
```

```
for item in fruit.keys():
```

```
print(item)
```

5. Question 5

```
x = 4
```

```
y = 5
```

Which of the following is true?

1.

not (x == 4)

2.

not (x == 5)

3.

not (y == 5)

4.

x != 4

6. Question 6

Match the statement to the correct definition.

Prompts

Submitted Answers

1. What does the break statement do?

Terminates the loop execution

2. What does the continue statement do?

Skips the current iteration and goes to the next iteration
of the loop.

7. Question 7

Which of the following is a relational operator?

1.

=

2.

All are relational operators

3.

=<

4.

<=

8. Question 8

Which of the following expressions checks whether a value assigned to the total variable falls in the

range 70 to 100?

1.

total >= 100 and total <= 70

2.

total >= 70 and <= 100

3.

total >= 70 and total <= 100

4.

total >= 70 or total <= 100

9. Question 9

registered = True

Given the above, which of the following if statements includes a condition that evaluates to true?

1.

All answers are correct

2.

if registered:

3.

if registered = True:

4.

if registered == "True":

10. Question 10

If a user-defined function does not return a value, what will it return by default?

1.

None

2.

0

3.

An empty string

4.

True or False

11. Question 11

How would you use indexing to to access the value Sept?print=(month[8])

12. Question 12

How many times will the following run?

```
for i in range(1,4):
```

```
    for j in range(1,4):
```

```
        # do something
```

1.

8

2.

9

3.

4

4.

6

13. Question 13

Which of the following function headers is valid?

1.

```
def sum(a = 2, b):
```

2.

All are valid

3.

All are invalid

4.

```
def sum(a, b = 3, c = 5):
```

5.

```
def sum(a = 2, b, c = 5):
```

14. Question 14

Which of the following will cause an error if $x = 2$, $y = 12$, and $z = 0$?

1.

$y + 12$

2.

$x ** z$

3.

None will cause an error

4.

$y / z5$.

$y \% 3$

15. Question 15

Which list method insert a new item to the end of an existing list?

1.

`end()`

2.

`pop()`

3.

`append()`

4.

`push()`

16. Question 16

Which of the following is TRUE?

1.

Lists are immutable

2.

Dictionaries are immutable

3.

All answers are true

4.

Tuples are immutable

17. Question 17

Match the following definitions to the correct example.

Prompts

Submitted Answers

1. Defines a TUPLE?

("plum", "banana", "cherry")

2. Defines a DICTIONARY?

{"plum", "banana", "cherry"}

3. Defines a LIST?

["plum", "banana", "cherry"]

18. Question 18

What sequence will this generate? range(3, 10, 2)

1.

10, 8, 6, 4

2.

3, 5, 7, 9

3.

3, 5, 7, 9, 3, 5, 7, 9

4.

9, 7, 5, 3

19. Question 19

You want to write a condition statement with multiple alternatives to print out the category of a mark entered by a user. What is wrong with the following ?

```
if mark < 50:
```

```
    print('Pass')
```

```
if mark < 60:
```

```
    print('Merit')
```

```
if mark < 101:
```

```
print('Distinction')
```

1.

An else should always be included.

2.

The conditions should use chained conditionals with elif.

3.

The conditions are in the wrong order; the check for the highest bracket should be first.

4.

The condition statements will correctly print out the appropriate category.

20. Question 20

Which of the following is NOT a valid augmented assignment operator?

1.

`*=`

2.

`+=`

3.

`x=4.`

`-=`

21. Question 21

Which of the following elements of a mathematical expression in Python is evaluated first?

1.

Addition +

2.

Subtraction -

3.

Multiplication *

4.

Parenthesis ()

22. Question 22

A variable defined inside a function is referred to as a?

1.

block variable

2.

global variable

3.

function variable

4.

local variable

23. Question 23

s = "hello"

Which of these is correct for the given string?

1.

upper(s) returns new string with all capital letters

2.

upper(s) returns a new string with the first letter as a capital letter

3.

s.upper() returns a new string with the first letter as a capital letter

4.

s.upper() returns new string with all capital letters

24. Question 24

Which list method inserts a new item at a specified index of an existing list?

1.

pop()

2.

insert()

3. append()

4.

add()

25. Question 25

When was the following method of string formatting introduced?

```
print(f'This module is { module}')
```

1.

Python 3.6

2.

Python 2.6

3.

Python 3.0

4.

Python 2.0

26. Question 26

Which of the following expressions checks whether a value in age is either less than 18 or more than 65?

1.

age < 18 and age > 65

2.

age <= 18 or age >= 65

3.

age < 18 or age > 65

4.

age <= 18 and age >= 65

27. Question 27

Which errors can be handled using the try..except statement?

1.

Semantic errors

2.

All these errors can be handled using the try..except statement

3.

Syntax errors

4.

Runtime errors

28. Question 28

Consider a function named `calc`. It accepts two integer arguments and returns their sum as an integer.

Which of the following statements is a correct invocation of the `calc` function?

1.

```
total = calc()
```

2.

```
total = calc(2, 3)
```

3.

```
total = (2, 3)
```

4.

```
total = calc(2)
```

29. Question 29

Match the code to the expected result

Prompts

Submitted Answers

1. `numbers = [1, 2, 3, 4, 5, 6, 7]`

```
numbers.pop(4)
```

```
[1, 2, 3, 4, 6, 7]
```

2. `numbers = [1, 2, 3, 4, 5, 6, 7]`

```
numbers.pop()
```

```
[1, 2, 3, 4, 5, 6, 7]
```

30. Question 30

How would you access the substring 'duct'? `print s [5:8]`

```
s = 'Introduction'
```

```
s[5:8]
```

31. Question 31

Which of the following is NOT a valid operation on a Python string variable?

1.

Changing a string. E.g., `name[2] = 'u'`

2.

Addition of strings. E.g., `'Hello' + ' World!'`

3.

Indexing a string to get a single letter of the string. E.g.,

`name = 'Maxim'`

`name[0]`

4.

Multiplication of string and integers. E.g., `'a' * 5`

32. Question 32

Which of the following will put a string into variable `s`?

1.

`String s = "Some Value"`

2.

`s = string("Enter value ")`

3.

`s = string(input("Enter value "))`

4.

`s = input("Enter value ")`

33. Question 33

Which of the following are TRUE?

1.

The values of a dictionary can be accessed using keys

2.

All the keys in a dictionary must be strings

3.

The keys of a dictionary can be accessed using values

4.

Items are accessed by their index position in a dictionary