

## 1. Question 1

Match the following examples to the expected result

| Prompts | Answer |
|---------|--------|
| 14//4   | 3      |
| 14%4    | 2      |
| 14.0/4  | 3.5    |

## 2. Question 2

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

Answer

5, 6, 7, 8, 9

## 3. Question 3

Which of these loops will run 10 times?

Answer

i = 0

while i < 9:

# 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?

Answer

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

```
print(item)
```

## 5. Question 5

```
x = 4
```

```
y = 5
```

Which of the following is true?

Answer

```
not (x == 5)
```

## 6. Question 6

Match the statement to the correct definition.

Prompts

What does the break statement do?

What does the continue statement do?

Answer

Terminates the loop execution

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

## 7. Question 7

Which of the following is a relational operator?

Answer

`<=`

## 8. Question 8

Which of the following expressions checks whether a value assigned to the total variable falls in the range 70 to 100?

Answer

`total >= 70 and total <= 100`

## 9. Question 9

`registered = True`

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

Answer

`if registered:`

## 10. Question 10

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

Answer

`None`

## 11. Question 11

`month = [['Jan', 'Feb', 'March'], ['April', 'May', 'June'], ['July', 'August', 'Sept'], ['Oct', 'Nov', 'Dec']]`

How would you use indexing to access the value Sept?

Answer

`month[2][2]`

## 12. Question 12

How many times will the following run?

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

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

`# do something`

Answer

9

## 13. Question 13

Which of the following function headers is valid?

Answer

All are invalid

## 14. Question 14

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

Answer

$y / z$

## 15. Question 15

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

Answer

`append()`

## 16. Question 16

Which of the following is TRUE?

Answer

Tuples are immutable

## 17. Question 17

Match the following definitions to the correct example.

Prompts

Answer

Defines a TUPLE?

`fruit = ('Banana', 'Apple', 'Watermelon')`

Defines a DICTIONARY?

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

Defines a LIST?

`fruit = ['Banana', 'Apple', 'Watermelon']`

## 18. Question 18

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

Answer

3, 5, 7, 9

## 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')
```

Answer

The conditions should use chained conditionals with `elif`.

## 20. Question 20

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

Answer

x=

## 21. Question 21

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

Answer

Parenthesis ()

## 22. Question 22

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

Answer

local variable

## 23. Question 23

s = "hello"

Which of these is correct for the given string?

Answer

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?

Answer

insert()

## 25. Question 25

When was the following method of string formatting introduced?

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

Answer

Python 3.6

## 26. Question 26

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

Answer

age < 18 or age > 65

## 27. Question 27

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

Answer

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?

Answer

`total = calc(2, 3)`

## 29. Question 29

Match the code to the expected result

| Prompts | Answer |
|---------|--------|
|---------|--------|

|  |  |
|--|--|
| <code>numbers = [1, 2, 3, 4, 5, 6, 7]</code> |  |
|--|--|

|                             |   |
|-----------------------------|---|
| <code>numbers.pop(4)</code> | 5 |
|-----------------------------|---|

|  |  |
|--|--|
| <code>numbers = [1, 2, 3, 4, 5, 6, 7]</code> |  |
|--|--|

|                            |   |
|----------------------------|---|
| <code>numbers.pop()</code> | 7 |
|----------------------------|---|

## 30. Question 30

How would you access the substring 'duct'?

`s = 'Introduction'`

Answer

`s[5:9]`

## 31. Question 31

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

Answer

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

## 32. Question 32

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

Answer

`s = input("Enter value ")`

## 33. Question 33

Which of the following are TRUE?

Answer

The values of a dictionary can be accessed using keys