

Course : IoT with Python
Python Test

Max Marks – 25 (Each question carries one mark)

1. What is the output of the following?

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

- a) 0 1 2 0
- b) 0 1 2
- c) error
- d) none of the mentioned

2. What is the output of the following?

```
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print(0)
```

- a) 0 1 2 3 0
- b) 0 1 2 0
- c) 0 1 2
- c) error

3. What is the output of the following?

```
x = "abcdef"
while i in x:
    print(i, end=" ")
```

- a) a b c d e f
- b) abcdef
- c) i i i i i ...
- d) error

4. Which of the following commands will create a list?

- a) list1 = list()
- b) list1 = [].
- c) list1 = list([1, 2, 3])
- d) all of the mentioned

5. Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for slicing operation ?

- a) print(list1[0])
- b) print(list1[:2])
- c) print(list1[:-2])
- d) all of the mentioned

6. Suppose list1 is [2, 33, 222, 14, 25], What is list1[-1] ?

- a) Error
- b) None
- c) 25
- d) 2

7. Suppose list1 is [2, 33, 222, 14, 25], What is list1[:-1] ?

- a) [2, 33, 222, 14].
- b) Error

- c) 25
- d) [25, 14, 222, 33, 2].

8. Which of these about a dictionary is false?

- a) The values of a dictionary can be accessed using keys
- b) The keys of a dictionary can be accessed using values
- c) Dictionaries aren't ordered
- d) Dictionaries are mutable

9. Which of the following is not a declaration of the dictionary?

- a) {1: 'A', 2: 'B'}
- b) dict([[1,"A"],[2,"B"]])
- c) {1,"A",2"B"}
- d) { }

10. What is the output of the following code?

```
a={1:"A",2:"B",3:"C"}  
for i,j in a.items():  
    print(i,j,end=" ")
```

- a) 1 A 2 B 3 C
- b) 1 2 3
- c) A B C
- d) 1:"A" 2:"B" 3:"C"

11. What is the output of the following piece of code?

```
a={1:"A",2:"B",3:"C"}  
print(a.get(1,4))
```

- a) 1
- b) A

- c) 4
- d) Invalid syntax for get method

12. Which are the advantages of functions in python?

- a) Reducing duplication of code
- b) Decomposing complex problems into simpler pieces
- c) Improving clarity of the code
- d) All of the mentioned

13. What are the two main types of functions?

- a) Custom function
- b) Built-in function & User defined function
- c) User function
- d) System function

14. What is called when a function is defined inside a class?

- a) Module
- b) Class
- c) Another function
- d) Method

15. What is the output of the below program ?

```
def C2F(c):  
    return c * 9/5 + 32  
print C2F(100)  
print C2F(0)
```

- a) 212
32
- b) 314
24
- c) 567

98

d) None of the mentioned

16. What is the output of the below program?

```
1. def sum(*args):  
2.     "Function returns the sum  
3.     of all values"  
4.     r = 0  
5.     for i in args:  
6.         r += i  
7.     return r  
8. print sum.__doc__  
9. print sum(1, 2, 3)  
10.      print sum(1, 2, 3, 4, 5)
```

a) 6

15

b) 6

100

c) 123

12345

d) None of the mentioned

17. _____ represents an entity in the real world with its identity and behaviour.

a) A method

b) An object

c) A class

d) An operator

18. _____ is used to create an object.

a) class

b) constructor

- c) User-defined functions
- d) In-built functions

19. What is the output of the following code?

```
class test:
    def __init__(self,a="Hello World"):
        self.a=a

    def display(self):
        print(self.a)
obj=test()
obj.display()
```

- a) The program has an error because constructor can't have default arguments
- b) Nothing is displayed
- c) "Hello World" is displayed
- d) The program has an error display function doesn't have parameters

20. What is the output of the following code?

```
class Demo:
    def __init__(self):
        pass

    def test(self):
        print(__name__)

obj = Demo()
obj.test()
```

- a) Exception is thrown
- b) __main__

- c) Demo
- d) test

21. When will the else part of try-except-else be executed?

- a) always
- b) when an exception occurs
- c) when no exception occurs
- d) when an exception occurs in to except block

22. Is the following code valid?

```
try:  
    # Do something  
except:  
    # Do something  
finally:  
    # Do something
```

- a) no, there is no such thing as finally
- b) no, finally cannot be used with except
- c) no, finally must come before except
- d) yes

23. What is the output of the following code?

```
def foo():  
    try:  
        return 1  
    finally:  
        return 2  
k = foo()  
print(k)
```

- a) 1
- b) 2

c) 3

d) error, there is more than one return statement in a single try-finally block

24. To open a file c:\scores.txt for reading, we use

a) infile = open("c:\scores.txt", "r")

b) infile = open("c:\\scores.txt", "r")

c) infile = open(file = "c:\scores.txt", "r")

d) infile = open(file = "c:\\scores.txt", "r")

25. What is the output?

```
1.f = None
2.for i in range (5):
3.    with open("data.txt", "w") as f:
4.        if i > 2:
5.            break
6.print(f.closed)
```

a) True

b) False

c) None

d) Error