

## **Quiz Questions On Functions**

1. How is a function declared in Python?

- A. `def function function_name():`
- B. `declare function function_name():`
- C. `def function_name():`
- D. `declare function_name():`

2. In python, functions are

- A. Always called by passing value
- B. Always called by passing reference
- C. May be called by passing reference or value
- C. None of these

3. What is not true about formal and actual parameters?

- A. Their number and type must match
- B. Their names must be identical
- C. Need not be given in same order
- D. All statements are true

4. Difference between fruitful function and void function is based on\_\_\_\_\_.

- A. definition
- B. parameters
- C. function name
- D. return type

5. What are the two main types of functions?

- A. Custom function
- B. Built-in function & User defined function
- C. User function
- D. System function

6. Choose the correct answer.

- A. Defining a function has no effect until it is invoked.
- B. Defining a function automatically executes the statements inside the function.
- C. Defining a function with parameters leads to an error.
- D. Defining a function without parameters leads to an error.

7. Choose the correct option.

- A. Users can not define their own functions.
- B. Without invoke, a function can give result.
- C. It becomes easy to keep track of data and control statements in program using functions.
- D. print() is not built-in function.

8. Which is a valid built-in function in python?

- A. print()
- B. fun()
- C. Random()
- D. Sqrt()

9. What is the output of the following Python program?

```
def function(a=0, b=3):  
    return b*(a+1)  
print(function(4, b=4))
```

- A. 3
- B. 4
- C. 20
- D. 30

10. What does the following program print?

```
def max(a, b):  
    return eval(a + b)  
a = input("Enter value of a:")  
b = input("Enter value of b:")  
print(max(a, b))
```

Suppose the values for a and b entered by user are 4 and 5 respectively.

- A. 45
- B. 9
- C. 54
- D. Nothing will be printed out

11. Consider the following function:

```
def fact(n):  
    return n >> ____ + 2
```

The above function returns 4 for n=16. What value should be at blank?

- A. 2
- B. 5
- C. 0
- D. 1

12. What is the output of the following python program?

```
def fun(x=1,y=2):  
    x=x+y  
    y+=1  
    print(x,y)  
fun(y=2,x=1)
```

- A. 3 1
- B. 2 3
- C. 3 3
- D. None of the above

13. What does the following python code print if x='A'?

```
def new(ch):  
    ch+=1  
    print(ch)  
new(x)
```

- A. B
- B. b
- C. Will show an error since integer can't be concatenated with string
- D. None of the above

14. Fill up the following python code which defines 'pow' function from scratch.

```
def power(n,k):  
    _____  
  
n=9  
k=2  
  
print("9 raised to power 2 is",power(9,2))
```

- A. return  $n^k$
- B. return  $9*9$
- C. return  $9*2$
- D. return  $n**k$

15. What will be output of the following Python code ?

```
def myFunction(a):  
    a+=20  
  
    return a  
  
num=30  
result= myFunction(num)  
print(result)
```

- A. 20   B. 30   C. 40   D. 50

16. Fill up the blank space for the given python script.

```
import _____
def print_details(name, dep = 'CSE', roll_no = 1234):
    print(name)
    print(dep)
    print(roll_no)
def main():
    print_details(_____, _____, sys.argv[3])
if _____ == '__main__':
    _____
```

- A. sys.argv[1], sys.argv[2], \_\_name\_\_, main()
- B. sys.argv[0], sys.argv[1], name, main()
- C. sys.argv[0], sys.argv[2], \_\_name\_\_, main()
- D. sys.argv[1], sys.argv[2], \_\_name\_\_, main()

17. What is the output of the following Python program?

```
def test_range(n):
    if n in range(3,9):
        print("The number is inside the given range.")
    else :
        print("The number is outside the given range.")
test_range(5)
```

- A. Syntax error
- B. The number is inside the given range
- C. The number is outside the given range
- D. None of the above

18. Fill up the following Python code which computes the Max of three numbers.

```
def max_of_two( x, y ):
    if x > y:
        return x
    return y
def max_of_three( x, y, z ):
    return max_of_two( x, _____ )
print(max_of_three(3, 6, -5))
```

- A. max\_of\_two( x, z )
- B. max\_of\_two( x, y )
- C. max\_of\_two( y, z )
- D. max\_of\_three( y, z )

19. The correct statement to check an error and terminate if error is found is:

- A. `assert marks>=0 and marks<=100`
- B. `Assert marks>=0 and marks<=100`
- C. `ASSERT marks>=0 and marks<=100`
- D. We can not terminate using assert statement

20. In command line arguments, the first argument is by default:

- A. name of the file
- B. the value entered after name of the file
- C. python
- D. py

21. In order to compute `log6(8)` (base 6), the correct syntax is:

- A. `log6(8)`
- B. `math.log(6,8)`
- C. `math.log(8,6)`
- D. None of the above

22. `main()` is a built in function:

- A. True
- B. False

23. Importing random module and using `random.random()` , how many arguments we can pass in it:

- A. 0
- B. 1
- C. 2
- D. Any number of arguments

24. Which of the following is the reason to use Functions?

- A. Reduce program size
- B. Avoiding ambiguity
- C. More easily Understandable
- D. All of the above

25. Fill in the blank of below function to return maximum among 3 numbers

```
def maximum(a, b, c):  
    if (a >= b) and (a >= c):  
        largest = a  
    elif _____ and (b >= c):  
        largest = b  
    else:  
        largest = c  
    return largest
```

- A. (b<=a)
- B. (b==a)
- C. (b>=a)
- D. (b<a)

26. What is the output of the following java program?

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

- A. 212  
32
- B. 314  
24
- C. 216  
34
- D. 212  
34

Answer:

1. C
2. B
3. B
4. D
5. B
6. A
7. C
8. A
9. C
10. A
11. C
12. C
13. C
14. D
15. D
16. D
17. B
18. C
19. A
20. A
21. C
22. B
23. B
24. D
25. C
26. A