**Test I– August, 2018**

Instructions:

For Section A

* There are 10 questions of 1 mark each. Each question is having four distinct options out of which only one choice will be correct. There is no negative marking for incorrect answers.

For Section B

* There are 4 Questions of 2 marks each. Each question is having four distinct options out of which only one choice will be correct. There is no negative marking for incorrect answers.

For Section C

* There are 2 Questions of 6 marks each.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Section-A

*(All Questions are Compulsory, Each question carries 01 mark)*

1. What does the following python code prints out?

def addtwo(a,b):

added=a+b

return a

x=addtwo(2,7)

print (x)

(a) 9 (b) 7

**(c) 2** (d) addtwo

1. Which of the following functions accepts only integers as arguments?

a) ord() b) min()

**c) chr()** d) any()

1. The assignment of more than one function to a particular operator is \_\_\_\_\_\_\_

a) Operator over-assignment b) Operator overriding

**c) Operator overloading**  d) Operator instance

1. What is the output of the following program?

dictionary1 = {'GFG' : 1, 'Google' : 2, 'GFG' : 3}

print(dictionary1['GFG'])

a) Compilation error due to duplicate keys **b) Runtime time error due to duplicate keys**

c) 3 d) 1

1. What is the output of the following?

i = 2

while True:

if i%3 == 0:

break

print(i)

i += 2

**a. 2 4 6 8 10**  b. 2 4

c. 2 3 d. error

1. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after doing list1.pop(1) 3 times?

**a) [3, 4, 5, 20, 5]** b) [1, 5, 5, 20, 25]

c) [3,5,25,1, 3] d) [1, 3, 4, 5, 20, 5, 25]

1. Is Python case sensitive when dealing with identifiers?

**a) yes** b) no

c) machine dependent d) none of the

mentioned

8. What is the maximum possible length of an identifier?

a) 31 characters **b) 63 characters**

c) 79 characters d) none of the

mentioned

9. Which of the following is an invalid variable?

a) my\_string\_1 b) 1st\_string

c) foo **d) \_**

10. Which of the following is an invalid statement?

a) abc = 1,000,000 **b) a b c = 1000 2000 3000**

c) a,b,c = 1000, 2000, 3000 d) a\_b\_c = 1,000,000

Section-B

*(All Questions are Compulsory, Each question carries 02 marks)*

11. Predict the output of the following code:

x=50

def func(x):

print(‘x is’,x)

x=2

print(‘Changed local x to’, x)

func(x)

print(‘x is now’,x)

a) x is now 50 **b) x is now 2**

c) x is now 100 d) None of the

mentioned

12. Predict the answer.

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

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

a==b

set(a)==set(b)

a) True b) False

False False

**c) False** d) True

**True** True

13. What is the output of the following code:

def func(a,b=5,c=10):

print("a is ",a, "and b is",b, "and c is" ,c)

func(3,7)

func(25, c=24)

func(c=50, a=100)

a)

a is 7 and b is 3 and c is 10

a is 25 and b is 5 and c is 24

a is 5 and b is 100 and c is 50

b)

a is 3 and b is 7 and c is 10

a is 5 and b is 25 and c is 24

a is 50 and b is 100 and c is 5  
**c)**

**a is 3 and b is 7 and c is 10**

**a is 25 and b is 5 and c is 24**

**a is 100 and b is 5 and c is 50**

d) None of the above

14. What is the output of the code shown?

def f():

global a

print(a)

a=”hello”

print(a)

a=”world”

f()

print(a)

a)hello b)world  
hello hello  
world hello  
c)hello d)world  
world hello  
world world

Section-C

*(All Questions are Compulsory, Each question carries 05 marks)*

15. A List of Flowers

There is bunch of flowers available where each flower is tagged by a number. Ram randomly picked up the flowers that might contain duplicate tag numbers. Now, he has to form a bouquet from that picked up flowers such that each bouquet contains the flowers with unique tag numbers. He has to perform this action every time a bouquet is to be prepared. So, he thought of automating this process. Help Ram to automate this process so that he can perform this task fastly.

Write a program using functions that takes List as input which contains duplicate tag numbers. The task is to remove the duplicate tag numbers i.e. to form a new list that contains unique tag numbers.

If the list is empty, do display the message: "List is empty".

Explanation:

First Line of the input contains the number of elements in the list.

Next Lines refers to the elements of the list to be entered.

Sample Input:

5

1

2

3

1

4

Sample Output:

[1, 2, 3, 4]

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case Number** | **Input** | **Output** | **Weightage** |
| 1 | 7  1  1  1  1  1  1  1 | [1] | 2 |
| 2 | 10  11  22  33  44  11  33  44  77  88  44 | [11,22,33,44,77,88] | 1 |
| 3 | 0 | List is empty | 2 |

16. Number is Palindrome:

A non-negative integer is entered through the keyboard. Check whether the given integer is palindrome number or not.

If the given integer is palindrome then display the sum of digits of given integer.

If the given integer is not palindrome then display the no. of digits in given integer

Sample Input1:

121 #input number

Sample Output1:

4 #since it is a palindrome, sum of digits: 1+2+1=4

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Input | Output | Weightage |
| 1 | 124 | 3 | 2 |
| 2 | 1331 | 8 | 1 |
| 3 | 13831 | 16 | 2 |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*