



(A)

Subject : Programming II

Exam: Monthly

Level : 1<sup>st</sup>Sem. 2<sup>nd</sup> Course : IT Gen Duration : 50 Mins.**Section I : Choose the correct answer (1 marks)**Answer 10 Question only

- Best definition for a function in python:
  - Block of data defined under a name
  - Block of code defined under a name
  - Block of data stored in the disk
  - Both a & B
- Functions make the code:
  - Faster
  - Shorter
  - Both A & B
  - None of the above
- Advantage of using files in python:
  - Organize the code
  - Use less number variables
  - Store data permanently
  - Both B & C
- Which of the following is a valid Python function?
  - def my\_function(): print("Hello, world!")
  - def my\_function (x=1) print("Hello, world!")
  - def my\_function(x): print(x)
  - All of the above
- Which of the following opens a file for writing
  - write("my\_file.txt", "a")
  - read("my\_file.txt", "w")
  - Both A & B
  - None of the above
- To insert 5 to the last position in list1, we use which command if list1=[11,12,13,14,15] ?
  - list1.insert(4, 5)
  - list1.insert(5, 4)
  - list1.append(5)
  - Both A & C
- What is the correct syntax of read() function?
  - file = read(file\_name,"r")
  - file.read("file\_name")
  - My\_Data = file.read("file\_name")
  - none of the mentioned
- Which of the following is used to print items of a list ?
  - for indx in my\_lst : print (indx)
  - for item in range (0,len(lst),1) : print (lst[item])
  - Both A & B
  - none of the above
- Is it possible to create a file in python?
  - Yes using open function
  - Yes using write function
  - Yes using return
  - No we can't create, we can read, write and append
- Which of the following is not a valid mode to open a file?
  - a
  - w
  - R
  - Both A & B

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

```
def fun(b):
    b = b + a
a=5
fun(a)
print(b)
```

- 5
- 0
- 10
- An exception is thrown (ERROR)

**Section II : Select the correct answer: (2 Mark)**Answer 10 Question only

1. What is the output when following code is executed ?

```
list1 = [1, 3]
list2=[1,2]
list2[0] = list1
print(list2)
```

- [[1, 3], 2]
- [1, 3, 2]
- [1, 3]
- Error

2. What is the output when following code is executed ?

```
1. def f(x="H",y=1):
2.     for i in range(y):
           print(x, end=" ")
```

3. y=3

4. f(2)

- HH
- HHH
- H
- None of mentioned

3. What is the output?

```
1. matrix = [[1, 2, 3, 4],
2.           [4, 5, 6, 7],
3.           [8, 9, 10, 11],
4.           [12, 13, 14, 15]]
5.
6. for i in range(0, 4):
7.     print(matrix[i][1], end = " ")
```

- 1 2 3 4
- 4 5 6 7
- 1 3 8 12
- 2 5 9 13

**(A)****Subject : Programming II****Exam: Monthly****Level : 1<sup>st</sup>****Sem. 2<sup>nd</sup> Course : IT Gen Duration : 50 Mins.**4. What will be the output?

```
1. data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]
2. print(data[1][0][0])
```

a) 1    b) 2    c) 4    d) 5

5. What is the output of the below program?

```
def printMax(a, b, c=5):
    if a > b:
        print(a, 'is maximum')
    elif a == b:
        print(a, 'is equal to', b)
    else:
        print(c, 'is maximum')
printMax(5, 6)
```

- a) 5 is equal to 5      b) Error  
c) 5 is maximum      d) 6 is maximum\_

6. The output of the code shown below is:

```
def f1():
    x=15
    print(x)
x=12
print(x)
f1()
```

- a) 15 and 15      b) 12 and 15  
c) 15 and 12      d) 12 and 12

## 7) What is the output of the following code?

```
def my_function(x):
    return x + 1
temp= my_function(5)
```

- A) 6      B) 5      C) Error    D) No output

## 8) What is the output of the following code?

```
list_of_numbers = [1, 2, 3]
```

```
print(list_of_numbers[1:1])
```

- A) []      B) 2      C) 3      D) 1

## 9) What is the output of the following code?

```
list1 = [1, 2, 3, 4, 5]
list1.append([6])
print(list1)
```

- (A) [1, 2, 3, 4, 5, 6]    (B) [2, 3, 4, 5, 6]  
(C) [1, 3, 5, 4, [ 6] ]    (D) None of the mentioned

## 10) What is the output of the following code?

```
list1 = [1, 2, 3, 4, 5]
item = [1,2]
if item in list1:
    print("2 is in the list")
else:
    print("2 is not in the list")
```

- (A) item is in the list    (B) item is not in the list  
(C) True      (D) False

11. Python 2-D lists are :

- a) Dynamic but single type only  
b) Static and multi-type  
c) Dynamic and multi-type  
d) Single type

12. Bonus Questions :

Code :

```
list1 = [1, 3]
list2=[1,2]
list2[0] = list1
list1[1]=4
print(list2)
```

The output is :

- A ) [[1, 4], 2]  
B ) [[1, 3], 2]  
C ) [1, 3, 2]  
D ) [1, 4, 2]