

Test Series -2

Time: 40 min

M.Marks: 25

Topics: Dictionary, Random function, Working with function, Python libraries

Q1 Given is the following Dictionary dict={1:'A',2:'B',3:'C',6:'D',4:'E'} ? [1/2]
What is the output of the command print(dict[6])

Q2 Write the output from the following code [1/2]
>>>s = "Global"
>>>"I" in S

Q3 [2]

```
def simple_interest(p, r, t):  
    return (p*r*t)/100  
print (simple_interest(100,5,2))
```

Identify the formal and actual parameters in the above code snippet. Define formal and actual parameters in a function.

Q4 [1]

```
c = 10  
def add():  
    global c  
    c = c + 2  
    print('Inside add():', c)  
add()  
c=15  
print('In main:', c)
```

output:
Inside add() : 12
In main: 15

Consider the above program and justify the output. What is the output if “global c “ is not written in the function add().

Q5 Consider the following function headers. Identify the correct statement and state reason [1/2]

- 1) def correct(a=1,b=2,c):
- 2) def correct(a=1,b,c=3):
- 3) def correct(a=1,b=2,c=3):
- 4) def correct(a=1,b,c):

Q6 What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum AND minimum values that can be assigned to the variable Num when P = 7 [2]

```
import random as r
val = 35
P = 7
Num = 0
for i in range(1, 5):
    Num = val + r.randint(0, P - 1)
    print(Num, "$ ", end = "")
    P = P - 1
```

- (a) 41 \$ 38 \$ 38 \$ 37 \$
- (b) 38 \$ 40 \$ 37 \$ 34 \$
- (c) 36 \$ 35 \$ 42 \$ 37 \$
- (d) 40 \$ 37 \$ 39 \$ 35 \$

Q7 Find and write the output of the following Python code: [2]

```
def fun(s):
    n = len(s)
    m=""
    for i in range(0, n):
        if (s[i]>='a' and s[i]<='m'):
            m = m + s[i].upper()
        elif (s[i]>='n' and s[i]<='z'):
            m = m + s[i-1]
        elif (s[i].isupper()):
            m = m + s[i].lower()
        else:
            m = m + '#'
    print(m)
fun('Gini%Jony')
```

Q8 Write a function part_reverse(list, start, end) to reverse elements in a list where arguments are start and end index of the list part which is to be reversed. Assume that start < end, start >= 0 and end < len(list) [2]
Sample Input Data of List

```
my_list=[1,2,3,4,5,6,7,8,9,10]
Function Call = part_reverse(my_list,3,6)
```

Output is
my_list=[1,2,3,7,6,5,4,8,9,10]

Q9 Write a Python program to have following features: [1]

a) A function that takes a number as argument and calculates cube for it. The function does not return a value.

b) If there is no value passed to above created function i.e. (a) in function call, the function should calculate cube of 2. [1]

c) A function that takes two char arguments and returns True if both arguments are equal otherwise False. [1]

Q10 What is a Python module ? What is its significance ? [1]

Q11 What is namespace in Python ? [1]

Q12 Which file must be present inside a directory to be considered by python as a library ? [1/2]

Q13 From which folder, Python interpreter imports Python library and packages ? [1/2]

Q14 a) How are packages and modules related to each other ? [1]

b) What is the difference between import statement and from import statement ? [1]

Q15 What is scope ? What are the scope resolving rules of Python ? [1]

Q16 Write down the flow of execution (which line of code execute first and after and so on) for the code : [1]

```
1 def power(b,p):  
2     r=b**p  
3     return r  
4 def CalcSquare(a):  
5     a=power(a,2)  
6     return a  
7 #_main_  
8 n=5  
9 result=CalSquare(n)  
10 print(result)
```

Q17 Can a function return multiple values ? How ? [1]

Q18 When a global statement is used ? Why is its use not recommended ? [1]

Q19 What is the output of the following code : [1/2]

```
a = 1  
def f( ):  
    a = 10
```

`print(a)`

Q20 Predict the output of the following code fragment :

[1]

```
def check(n1=1, n2=2):
```

```
    n1=n1+n2
```

```
    n2+=1
```

```
    print(n1,n2)
```

```
check( )
```

```
check(2,1)
```

```
check(3)
```

Q21 Find error, under line them and rewrite the same after correcting the following code:

```
d1 =dict[]
```

[1]

```
i=1
```

```
n=input("Enter number of entries :")
```

```
while i<n:
```

```
    a= input("Enter name")
```

```
    b=input("Enter age")
```

```
    d1(a) =b
```

```
    i=i+1
```

```
    L= d1. Key[ ]
```

```
For l in L:
```

```
    print int(i, '\t' , 'd1 [i]')
```