JB Academy

Review Test 2019

Class XII (Computer Science)

MM-35 **Time Allowed: 1:30 Hrs.**

Q1. a) What is difference between the formal parameters and actual parameters? What are their alternative names? Give a suitable example to illustrate both. [3]

b) Identify Local, Global and Built-in in the given code: [2]

```
y,p=10,20
pos=300
def display():
    x=3
    b="xyz"
    print (len(b))
display()
```

c) Write a function that receives two numbers and generates a random number from that range. Using this function, the main program should be able to print three numbers randomly. [3]

d) Write definition of a method/function **AddOddEven(VALUES)** to display sum of odd and even values separately from the list of VALUES. [3]

For example :

If the VALUES contain [15, 26, 37, 10, 22, 13]
The function should display
Even Sum: 58
Odd Sum: 65

e) Tell the output if possible otherwise find error in the given code: [2]

```
p=10
def show( ):
    print p
     a=p+10
    print a,p
    p=90
    return p
x=show( )
print p, x
```

P.T.O.

f) Write a function to pass a List as its argument and add 10 to every even number and subtract 2 from every odd number in the list. Display both the lists. [3]

Q2. a) What are linear and non-linear data structures? Give examples also. [2]

b) What is difference between a Library and a module? Which file is necessarily required to be in folder of a package. [2]

c) In which folder do you need to save your package in python? [1]

d)

What are the possible outcome(s) executed from the following code ? Also specify the maximum and minimum values that can be assigned to variable PICKER.

```
import random
PICKER=random.randint(0,3)
COLOR=["BLUE","PINK","GREEN","RED"];
for I in COLOR:
    for J in range(1, PICKER):
        print(I,end="")
    print()
```

[2]

(i)	(ii)	(iii)	(iv)
BLUE	BLUE	PINK	BLUEBLUE
PINK	BLUEPINK	PINKGREEN	PINKPINK
GREEN	BLUEPINKGREEN	GREENRED	GREENGREEN
RED	BLUEPINKGREENRED		REDRED

Q3. a) Write a program to create an array of 10 elements, store values to it, then take a number from the user and search it in the array using binary search technique. Print appropriate message if number does not exist in the array. [3]

b) Write a program for PUSH and POP operations in a stack. [3]

Or

Write a program to demonstrate insert and delete operations in a queue.

c) Translate following infix expression into its equivalent postfix expression. Show every steps in a stack. 12, 7, 3, -, /, 2, 1, 5, +, *, + [2]

d) Translate following infix expression into its equivalent postfix expression [2]

((A-B)*(D/E))/(F*G*H)

e) How do you generate floating random numbers between 10 and 30? [2]

**********END**********