

General Instructions:

All Questions are compulsory.

Section A(1*7=7)

A. Multiple Choice Questions.

1. Raman has declared a tuple T in Python as following:

`T=(10,20,30)`

Now, he wants to insert an element 40 after these three elements of T so that the tuple may contain (10,20,30,40).

Which of the following statements shall Nitesh write to accomplish the above task ?

- a) `T = T+40` b) `T = T + (40)` c) `T = T+(40,)` d) None, since tuple are immutable
2. Suppose the content of a text file Notes.txt is :

“ The way to get started is to quit talking and begin doing”

`F= open(“Notes.txt”)`

`F.seek(8)`

`S = F.read()`

`print(S)`

- a) The way to get started is to b) quit talking and begin doing
c) The way to get started is to quit talking and begin doing d) to get started is to quit talking and begin doing

3. Assertion(A): List is an immutable data type

Reasoning(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory.

- (a) Both A and R are true and R is the correct explanation for A.
(b) Both A and R are true and R is not the correct explanation for A
(c) A is True but R is False (d) A is false but R is True

4. State True or False:

“In a Python program, if a break statement is given in a nested loop, it terminates the execution of all loops in one go.”

5. What is the first thing to do before performing any functions on a text file?

a. Import modules b. Open file c. Read file d. Print the name of the file

- 6 Which of the following is a wrong way of defining a function:-

a) `def f(x=10, y=20, z=30):` b) `def f(x, y, z):` c) `def f(x=10, y, z):` d) `def f(x, y=20, z=30):`

7. Which of the following will delete key-value pair for key = “Red” from a dictionary D1?

a. `delete D1(“Red”)` b. `del D1[“Red”]` c. `del.D1[“Red”]` d. `D1.del[“Red”]`

Section B(2*5=10)

8. (a) Given is a Python string declaration:

`Mystring="@@ILoveToPrograminPython@@"`

Write the output of: `print(Mystring [2:18])`

(b) Write the output of the code given below:
 D = {"ID": "E001", "Name": "Rajiv Singh"}
 D['Age'] = 25
 D['Address'] = "Delhi"
 print(D.items())

9. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
def chksum:
    x= input("Enter a number")
    if (x%2 = 0):
        for i range(2*x):
            print i
        loop else:
            print "#"
```

10. What is the significance of having functions in a program?
 11. What is the use of global Keyword? Explain with the help of the example.
 12. What is the difference between text and binary files? Explain.

Section C (3*3=9)

13. Differentiate between the following.
 a) Actual and formal parameter
 b) write and writelines() method or split and partition method
 14. Write a function in python to count the number of lines in a text file "STORY.TXT" which is starting with an alphabet 'B'. or
 Write a function in python that counts the number of "Me" or "My" words present in a text file "STORY.TXT" contents are as follows:

My first book
 Was Me and
 My Family. It
 Gave me
 Chances to be known to the world.

The output of the function should be :
 Count of Me/ My in file :

15. a. What is the difference between keyword and default arguments.
 b. What are file modes. Explain any 1 file mode in detail.

Section D(1*4=4)

16. A) Write the use and syntax for the following method.
 a) open () b) tell() c) sorted() d)extend()
 or
 B) i) What is the output of the following.

```
x = 50
def func(x):
    print('x is', x)
    x = 2
    print('Changed local x to', x)
func(x)
print('x is now', x)
```

- ii) Write a function in Python to read a text file, Alpha.txt and displays those lines which begin with the word 'You'.