[6237]-507

T.Y. B.Sc.

COMPUTER SCIENCE

CS-3510 : Python Programming

(Revised 2019 Pattern) (CBCS) (Semester - V)

Time : 2 Hours]   *[Max. Marks : 35*

Instructions to the candidates:

   1)   *All questions are compulsory.*

   2)   *Figures to the right indicate full marks.*

   3)   *Total number of questions are five.*

Q1) Attempt any Eight of the following.   **[8×1=8]**

   a)   What in indentation?

   b)   List the features of Python?

   c)   What are break and continue statements?

   d)   List any two built-in exceptions?

   e)   What is the purpose of range ( ) function?

   f)   What does the following function return - clock ( ) and gmtime ( ).

   g)   Compare for and while loop.

   h)   Define text and binary files.

   i)   Define list and dictionary.

   j)   What is lambda function?

Q2) Attempt any four of the following.   **[4×2=8]**

   a)   Explain built-in string methods with example.

   b)   How to list files and directories? Describe with example.

   c)   Explain set union and intersection with example.

   d)   What is recorsion? Explain with example.

   e)   What are the basic tuple operations? Explain with example.

Q3) Attempt any two of the following. [2×4=8]

   a) Write a phython program to find factorial of a number.

   b) Write a python program to check if a given number is Armstrong.

   c) Write a python program to check whether a given string is Palindrome or not.

Q4) Attempt any two of the following. [2×4=8]

   a) Write a python program to check if a given key already exists in a dictionary.

   b) Write a python program to put even and odd elements of a list into two different lists.

   c) Write a python program to count vowels and consonants in a string.

Q5) Attempt any one of the following. [1×3=3]

   a) Trace the output of the following

```
import tracebook
try:
    x =8/0
    print(x)
except:
    print ("error update")
    traceback print-exc ( )
Print ("Program Execution Successful")
```

   b) Trace the output of the following

```
n = 50
i = 5
s = 0
while i < n :
    st = i
    i + = 10
Print (" i =" , i)
Print ("Sum = ", Sum)
```

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