Total No. of Questions : 5]

SEAT No. :

PE-1517

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T.Y. B.Sc. (Computer Science)

CS - 3510 : Python Programming

(Revised 2019) (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 question are five.***

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

a) How do you define a user-defined exception in Python?

b) How do you read and write files in Python?

c) What are the operations available for sets in Python?

d) What is variable-length argument?

e) How to add mutliple elements at the end of the list?

f) What is the use of the map() function in Python?

g) How do you access elements in a list?

h) How to raise an exception with arguments.

i) What is a lambda function? Give an example.

j) What is the use of comments in Python? Provide an example.

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

a) Why is Python considered a powerful and flexible programming language?

b) What are lists in Python? Explain different ways to create, access, and modify lists with examples.

c) Describe different built-in-string methods in Python with examples.

d) Describe the concept of tuples in Python. How are they different from lists?

e) What are Python packages? Explain how to create and import a package with examples.

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Q3) Attempt any TWO of the following: **[2 × 4 = 8]**

a) Write a python program to get a string from user and replace all the occurrence of 'a' with $ in a string.

b) Write a program to raise a user defined exception to check if age is greater than 21.

c) Write a python program to display table of given number.

Q4) Attempt any TWO of the following: **[2 × 4 = 8]**

a) Write a python program to perform addition of two 3*3 matrix using function.

b) Write a Python program to extract year, month, date and time using Lambda.

c) Write a Python program to modify a list based on these conditions:

- If a number is **even**, square it.
- If a number is **odd**, cube it.
- Return the modified list.

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

a) Write a short note on exceptions handling in Python?

b) Write a short note on modules in Python.



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