PA-1029

SEAT No. :

215

[Total No. of Pages : 3

[Max. Marks: 35

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T.Y. B.Sc. (Semester - V) COMPUTER SCIENCE CS-3510 : Python Programming (2019 Pattern) (CBCS)

Time : 2 Hours] Instructions to the candidates:

- 1) Figures to the right indicate full marks.
- 2) All Questions are compulsory.
- 3) Total number of questions are FIVE.

Q1) Attempt any Eight of the following (Out of Ten).

- a) What are the advantages of Python?
- b) List out main differences between lists & tuple.
- c) Python is a scripting language. Comment.
- d) Demonstrate set with example.
- e) What is dictionary? Give example.
- f) What is regEx? give example.

g) (What is user defined Module? Give example.

Python is case sensitive language. Comment.

- i) What is dry run in Python?
- j) What is lambda function? Give example.
- **Q2**) Attempt any four of the following (Out of Five). $[4 \times 2 = 8]$
 - a) Write a python program to calculate X^{Y} .
 - b) Write a python program to accept a number and check whether it is perfect number or not.

 $[8 \times 1 = 8]$

- c) What is the use of seek() & tell () functions?
- d) Demonstrate list slicing.
- e) A tuple is ordered collection of items. Comment.
- **Q3**) Attempt any Two of the following (Out of Three). $[2 \times 4 = 8]$
 - a) Write a short note on datatypes in Python.
 - b) Write a short note on exception handling.
 - c) What is a module? What is package? Explain with example.

Q4) Attempt any Two of the following (Out of Three). $(2 \times 4 = 8)$

- a) Write a recursive function in Python to display addition of digits in single digit.
- b) Write a program in python to accept 'n' integers in a list, compute & display addition of all squares of these integers.
- c) Write a Python program to count all occurences of "India" and "Country" in a text file "pledge.txt".
- **Q5**) Attempt any One of the following (Out of Two). $[1 \times 3 = 3]$
 - a) What is the output of following code :
 - X = 5def f1(): global X X = 4 def f2(a, b): global X return a+b+X f1() total = f2(1, 2) print (total)

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b) What is the output of following code :

```
def f(X):
          def
              f1(a, b) :
               print ("hello")
              if (b==0) :
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                print ("NO")
```