

Total No. of Questions : 5]

SEAT No. :

P5155

[Total No. of Pages : 2

[5823]-507

T.Y. B.Sc.

COMPUTER SCIENCE

CS-3510 : Python Programming

(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 8 of the following :

[8 × 1 = 8]

- a) What is dry run in Python?
- b) Give the purpose of selection statements in Python.
- c) List the types of type conversion in Python.
- d) What is the use of pass statement?
- e) Explain the function enumerate().
- f) Explain the extend method of list.
- g) What are required arguments in function?
- h) Explain any 2 functions in time module.
- i) What are the types of file in Python?
- j) Write the use of seek & tell function.

Q2) Attempt any 4 of the following :

[4 × 2 = 8]

- a) How to handle exception in Python?
- b) Explain any 2 metacharacters used in regular expression.
- c) Explain any 2 built-in list functions.
- d) Explain backward indexing in strings.
- e) Define identifiers.

P.T.O.

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

- a) Write a Python program to check if a given number is Armstrong.
- b) Write a Python program to display power of 2 using anonymous function.
- c) Write a Python program to print even length words in a string.

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

- a) Write a Python program to check for Zero Division Error Exception.
- b) Write a Python program to find gcd of a number using recursion.
- c) Write a Python program to check if a given key already exists in a dictionary.

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

- a) Trace the output of the following :

```
sum = 0
for i in range (12, 2, -2) :
    sum + = i
print sum
```

- b) Trace the output of the following :

```
count = 1
def doThis ( ) :
    global count
    for i in (1, 2, 3) :
        count + = 1
doThis( )
```

