

Exam. Code : 105703

Subject Code : 1460

B.Sc. Information Technology 3rd Semester

INTRODUCTION TO PYTHON

Paper—I

Time Allowed—3 Hours] [Maximum Marks—75

Note :— Attempt any *five* questions. Use of Non-Programmable, Non-Storage Calculator is permitted.

1. (a) Name Python Data Types. 5

(b) Write the output for the following code :

`x=10``y=20``if (x>y):``print x+y``else:``print x-y` 5

(c) Explain with code the use of Escape Sequence in Python. 5

2. (a) What is use of *Dictionary* data type in Python ? 5

(b) Write a Python program to sum all the items in a dictionary. 10

3. (a) Write a note on basic object oriented programming concepts using Python code. 10
- (b) Define a Class Travel Plan in Python with the following descriptions :
- Private Members :
- Plan Code of type long
- Place of type character array (string)
- Number_of_travellers of type integer
- Number_of_buses of type integer. 5
4. (a) Write a Python program that accepts a word from the user and reverse it. 7
- (b) What is *Recursion* ? Explain using Python code. 8
5. (a) Write a Python program to get the largest number from a list. 7
- (b) Write Python code to explain use of *Break* and *Continue* keywords in Loops. 8
6. (a) Write a note on using Files in Python. 5
- (b) Write a Python program to count the frequency of words in a file. 10
7. Using Python code highlight use Python Modules and Top Down Design. 15
8. Using Python code highlight use Python API for querying Database Tables. 15