Exam. Code : 105703

Subject Code: 1459

B.Sc. Information Technology 3rd Semester INTRODUCTION TO PYTHON Paper-I

[Maximum Marks—75 Time Allowed-Three Hours]

Note: -- Attempt FIVE questions, selecting at least ONE question from each section. The fifth question may be attempted from any section.

SECTION-A

Discuss key features of the Python programming language.

(Contd.)

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Write down the structure of a Python program. How is a Python program edited and run? 10,5

SECTION-B

Write down a program to check the conditions of room allotment in a hotel. Rooms at the ground floor are in luxury category and are costlier than the rooms at first and second floors. The hotel has no lift facility. Write logic to allocate rooms to able/differently-abled visitors as per their budget preference. Print message 'Room not available' if there is no room as per visitor's 15 requirements.

Discuss any 5 library functions in the Python language. Give at least 2 examples of each.

SECTION-C

- What is a dictionary? How is it useful? Explain any 5 dictionary methods. 2,3,10
- Consider first 100 natural numbers. Write a program to count all the double digit numbers that are odd.

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SECTION-D

- (a) What is garbage collection? How does it work in Python?
 - (b) Define a class to record information about a food item.
- (a) Write down the SQL statements to create a table to store the information about a movie.
 - (b) Assume the table contains 5 rows, write the statement to retrieve the most popular movie.
 - (c) Delete the movie which is least popular.
 - (d) Update the table to reflect change in movie collection at the end of the day. 6,3,3,3