Exam. Code : 107203
Subject Code : 1791

Bachelor of Computer Application (BCA) 3rd Semester
INTRODUCTION TO PYTHON PROGRAMMING
Paper—III

Time Allowed—Three Hours] [Maximum Marks—75

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

SECTION—A

1. Python is a powerful language. Which features of the language make it powerful ? 15

2. List the operators that Python supports. Explain the relational and logical operators along with their precedence while evaluating an expression. 5,10

SECTION—B

3. Describe the structure of a conditional statement. Write a program using conditional statements to find out discounted price for an item depending upon its category such as (a) seasonal-food-items with expiry date in a month at 10%, and otherwise 5%; (b) seasonal-clothes with sizes extra-small. or extra-extra-large at 20%. and otherwise 5%. 5,10

4. Write down the different ways to create the List sequence type. 15

SECTION—C

5. Write short notes on (a) debugging, (b) exception handling. 7.5,7.5

6. (a) What is a class ? How it different from an object ? Give examples. 8

   (b) Describe the role of constructors and destructors. 7

SECTION—D

7. Why is using a database better than using files ? Create a database to store information about employees of an organization working in different departments (located in different cities) who draw weekly salary as per their designation and experience. Indicate the primary and foreign keys. 5,10

8. What is a module ? Why are modules used ? How are they used ? 15