Exam. Code : 107201
Subject Code : 1772

Bachelor of Computer Application (BCA) 1st Semester
INTRODUCTION TO PROGRAMMING–C
Paper–I

Time Allowed—3 Hours] [Maximum Marks—75

Note :—Attempt **five** questions, selecting at least **one** question each from Section. The **fifth** question may be attempted from any Section.

SECTION—A

1. Write short notes on the following :

   (a) Data types

   (b) Variable v/s constant

   (c) Single v/s compound statement. 3×5=15

2. What are the different library functions for formatted input and output in C ? Explain giving examples.

   15

SECTION—B

3. What are the different types of loops in C ? Explain giving examples of each type. 15

4. Write a program demonstrating uses of all types of storage classes available in C. 15

SECTION—C

5. (a) Define functions. What are formal and actual parameters ? Explain. 7.5

   (b) What are the different methods of passing parameters to functions ? Explain giving examples.

   7.5

6. Write a program to multiply two matrices and store the result in third matrix. 15

SECTION—D

7. Define the following :

   (a) User defined data type

   (b) Structure

   (c) Union

   (d) Structure and pointers

   (e) Self-referencing structure. 5×3=15

8. Define and distinguish between Array of Pointers and Pointer to an Array. Give examples of both. 15