AE-1219

B.Sc. (Part - I)
Term End Examination, 2016-17

INFORMATION TECHNOLOGY

Paper - II

Programming Concept using C Language

Time : Three Hours] [*Maximum Marks* : 50

Note : Answer **five** questions in all. One question from each Unit is compulsory. All questions carry equal marks.

Unit-I

1. What is Programming Language ? Explain the basic structure of C program.

2. Differentiate between Compiler and Interpreter.

Unit-II

3. Explain the following with examples :

 (*a*) typedef and enum

 (*b*) printf and scanf

(Turn Over)

(2)

4. Describe the basic data types in C programming. How could we extend the range of values they represent ?

Unit-III

5. A year is entered through the keyboard. Write a program to determine whether the year is Leap or not. Use the logical operator && and !!.

6. What are the utilities of Switch Statement ? Write a program that demonstrate the use of switch statement.

Unit-IV

7. What is an Array ? Write a program to find average marks obtained by a class of 30 students in a test using array.

8. What is the difference between call by value and call by reference ? Explain it with suitable program.

Unit-V

9. What is Pointer ? Explain the types of operator used in pointer. How you can declare and initialize a pointer ? Write a program in C to illustrate the use of pointer.

10. Describe in brief the file management in C. What are the various input/ output functions used in file handling ?

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