A–1136

BCA(N)-101

Introduction to Programming Using C

Examination, June 2025

Time : 2:00 Hrs.   Max. Marks : 70

Note :– This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

Long Answer Type Questions   2×19=38

Note :– Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Explain a general structure of C program with an example.

2. What is function ? Explain different classification of user defined functions based on parameter passing and return type with examples

3. What is an array ? How a single dimension and two dimension arrays are declared and initialized ?

4. What is recursion ? Explain. Write a c-program using recursive function for Binary to Decimal Conversion.

5. Define a string. Explain any 4 string library functions with syntax and example

Section–B

Short Answer Type Questions   4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Differentiate between a variable and a constant.

2. What is an operator ? List and explain various types of operators.

3. Define storage class of a variable. What are the different types of storage class ?

4. What do you meant by union ? Differentiate between structure and union.

5. Write a program in C to print the numbers from 4 to 9 and their squares.

6. Write a C program to find the area of a rectangle.

7. Compare pseudo code with an algorithm.

8. Define with example :

   (a) Algorithm

   (b) flowchart

<div align="center">✸✸✸✸✸✸✸✸✸✸✸✸✸</div>