

BCA-06
December – Examination 2021
BCA (Part I) Examination
Programming in C
Paper : BCA-06

Time : 1½ Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section–A

4×3½=14

(Very Short Answer Type Questions)

Note :- Answer any *four* questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 3½ marks.

1. (i) Define implicit type casting with examples.
- (ii) What do you mean by Pre-processor Directives ? Give an example.

- (iii) What is the use of & and * operators in Pointer ? Give an example.
- (iv) What is the range of an Integer Type Number ? Assume an integer takes 2 bytes of memory.
- (v) Write any *four* keywords in C-language with its use.
- (vi) Write a C-program to print simple interest.
- (vii) Write the basic syntax of Switch-case Statement.
- (viii) Write any *four* differences between Structure and Union.

Section–B **4×14=56**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 14 marks.

- 2. Explain about the basic data types in C language with example.
- 3. Write a program to find if a given string is palindrome or not.

- 4. What is Array ? Explain declaration, initialization and accessing elements of one and two dimensions of numeric array.
- 5. Explain the following terms with suitable examples :
 - (a) Malloc
 - (b) Calloc
 - (c) Realloc
 - (d) Free
- 6. Differentiate between While and Do While loop with suitable examples.
- 7. What is Macro ? Explain parameterized and non-parameterized macro.
- 8. Why are functions used in C programming ? Discuss the various components of a function with suitable examples.
- 9. What is Recursion ? Differentiate between recursion with iteration.