BCA-06

June - Examination 2026
BCA (Part-I) Examination
Programming in 'C'
Paper : BCA-06

[*Time: **3** Hours*] [*Maximum Marks: **70***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions in each section.

Section-A **7×2=14**

(Very Short Answer Type Questions)

Note :- Answer **all** 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 **2** marks.

1. (i) What is a variable in C?

   (ii) What is the purpose of break statement?

   (iii) What is recursion?

   (iv) What is an array?

   (v) Define pointer.

   (vi) What is a function prototype?

   (vii) Define string.

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **7** marks.

2. Explain data types in C with suitable examples.

3. Describe the if-else ladder statement with syntax and example.

4. Write a C program to calculate the factorial of a number using a loop.

5. Explain the concept of call-by-reference with an example.

6. Write a C program to count vowels in a string.

7. Explain the use of malloc( ) and calloc( ) functions.

8. Differentiate between structure and union.

9. Explain file opening modes used in C.

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. Write a C program to input details of five students using structure and display the student securing highest marks.

11. Explain pointers in detail. Write a program to swap two numbers using pointers.

12. Write a C program to perform matrix addition of 3×3 matrices.

13. Explain the file handling in C. Write a program to create a file. Write data into it and read the data back from the file.
