

BCA-06

December - Examination 2025

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.

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 union?
- (ii) How will you declare a constant? Explain with example.
- (iii) Define function.
- (iv) Write differences between assignment (=) operator and equality (==) operator.
- (v) Write syntax of do...while loop with an example.
- (vi) What is the role of header file in C program?
- (vii) What is the flowchart?

Section-B

4×7=28

(Short Answer Type Questions)

Note :- Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **7** marks.

2. What is I/O functions? Explain formatted and unformatted I/O functions.
3. Explain the process of compiling and running a program.
4. Write a C program to find smallest number among three numbers.
5. What is pre-processor? Explain the working of pre-processor.
6. Explain the switch...case with example.
7. Write a C program to check prime number using function with call-by-value.
8. Explain the following string functions -
 - (a) strlen()
 - (b) strcat()
 - (c) strcmp()
9. What are the differences between header file and library file?

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. Each answer should not exceed **500** words. Each question carries **14** marks.

10. Create a structure called “Student” with members name, age, and total marks.
Write a C program to input data for two students, display their information, and find the average of total marks.
11. Write a program in C to find the maximum and minimum element in an array of 10 numbers.
12. Write a C program to sort an array of 10 numbers using bubble sort method.
13. Define file in C. Explain its types. Explain also following operations on file -
 - (a) Opening
 - (b) Closing
 - (c) Read from a file
 - (d) Write into a file
