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(Printed Pages 4)

(21224)

Roll No.

B.C.A.-I Sem.

18002

B.C.A. Examination, Dec.-2024

Programming Principles and Algorithm

(BCA-102)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from **all** sections
as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Answer all the **five** questions. Each
question carries 3 marks. Very short
answer is required not exceeding 75
words.

5×3=15

1. Define keyword and identifiers.

P.T.O.

2. What do you understand by preprocessor directives in C?
3. Differentiate between break and exit statement.
4. What is problem solving in C programming?
5. What do you mean by function call in C?

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions out of the following **three** questions Each question carries 7.5 marks. Short answer is required not exceeding 200 words.

$$7.5 \times 2 = 15$$

6. Explain any three types of statements used in C language.
7. What is flowchart? Draw a flowchart to find smallest number between three numbers.

8. Differentiate between call by value and call by reference with the help of an example.

Section-C

(Long Answer Type Questions)

Note : Answer any **three** questions out of the following **five** questions. Each question carries 15 marks. Answer is required in detail. $3 \times 15 = 45$

9. Explain different data types used in C language.
10. Differentiate between while and do-while loop with the help of suitable example of each.
11. Describe Big-on notation in detail for determining time complexity of an algorithm.

12. (i) Write a C program to check whether the input number is even or odd.
- (ii) Write a program in C language to swap two numbers without using third variable.
13. Explain about different storage classes with examples. Discuss their use and scope.