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(21223) Roll No.

BCA-I Sem.

18002

B.C.A. Examination, Dec.-2023

PROGRAMMING PRINCIPLES AND

ALGORITHM

(BCA-102)

Time : Three Hours J [Maximum Marks : 75

Note : Attempt questions from all sections

as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Attempt **all** questions. Each question carries 3 marks. Very short answer is

required not exceeding 75 words.

 $3 \times 5 = 15$

1. What is compiler?

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- What is Actual Parameter?
- Define Recursion?
- Explain any two problem solving techniques.
- What do you mean by primitive and non primitive data types.

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. 2×7.5=15
- What is loop? How can do.... while loop vary from while loop.
- 2. Explain if.....else with example.
- 3. Differentiate between call by value
- and call by reference with the help of example.

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Section-C (Long Answer Type Questions) Note : Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 3×15=45

- Distinguish between break and continue statement.
- (a) Explain static and register storage class with example.
 - (b) What are the advantages of C language?
- 3. (a) Write a 'C' program to check whether

the given number is prime or not.

(b) Write a 'C' program to calculate

Fibonnaci series.

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- Differentiate between flowchart and algorithm. Write an algorithm to compute the Sum of a digits.
- 5. Write the asymptotic notations used for best case, average case and worst case analysis of algorithms?

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