A   (Printed Pages 4)

(20222)   Roll No.

B.C.A.-I Sem.

18002 (CV-III)

B.C.A. Examination, Dec.-2021

PROGRAMMING PRINCIPLES AND ALGORITHM

(BCA-102)

Time : 1½ Hours]   [Maximum Marks : 75

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

Section-A

(Very Short Answer Questions)

Note : Answer any **two** questions. Each question carries 7.5 marks. Very Short answer is required not exceeding 75 words.   2×7.5=15

P.T.O.

1. write the use of comments in C program.

2. What do you understand by associativity and precedence of operators?

3. What do you mean by complexity of an algorithm?

4. What is scope of variable?

5. What do you mean by storage classes in C?

Section-B

(Short Answer Questions)

Note : Attempt any **one** questions out of the following **three** questions. Each question carries 15 marks. Short answer is required not exceeding 200 words.   1×15=15

6. Explain print f( ) and scan f( ) function used in C program with the help of an example.

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7. Explain the different steps used to solve any problem.

8. Write a program in C language to check whether the given number is prime or not.

Section-C

(Detailed Answer Questions)

Note : Attempt any **two** questions out of the following **five** questions. Each question carries 22.5 marks. Answer is required in detail. 2×22.5=45

9. Explain the logical and bitwise operators available in C with the help of suitable example. https://www.ccsustudy.com

10. Discuss the following with syntax and example :

   (i) Get ch ( ), get char ( ), put char ( )

   (ii) # include, # define

11. Explain any three control structures in C with proper syntax and examples.

12. Discuss the following problem solving techniques :

   (i) Trail & Error

   (ii) Divide & Conquer

13. How do you call a function in main C program? Explain with the help of a C program of your own choice.