D
(20321)
B.C.A.-I Sem.

(Printed Pages 4)

Roll No. ....

18002
B.C.A. Examination, Dec.-2020
Programming Principles & Algorithm
(BCA-102)

Time : Three Hours]   *[Maximum Marks : 75*

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

Section-A

(Very Short Answer Questions)

Note : Attempt all the **five** questions. Each question carries **3** marks. Very short answer is required not exceeding 75 words.   3×5=15

1. What is variable?

2. What is interpreter?

P.T.O.

3. Define Recursion.

4. Write four preprocessor directives.

5. Write Syntax and usage of Ternary Operator.

Section-B

(Short Answer Questions)

Note : Answer any **two** questions out of the following **three** questions. Each question carries **7½** marks. Short answer is required not exceeding 200 words.   7½×2=15

6. Write a program in C to find maximum of three numbers.

7. Write a program in C to calculate are of circle.

8. What is structure of 'C' program? Define it.

18002/2

Section-C

(Detailed Answer Questions)

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

9. Why time Complexity is an important issue? Explain.

10. What do you mean by Call-by-value and Call-by-reference? Explain both in brief. Also explain difference between them.

11. Write a C Program using while loop to calculate the factorial of a given number.

12. What is array? Explain in brief. How array is declared in C ? Also write limitations of an array.

13. Write note on :

(a) Function

(b) Header files

(c) Flow chart

(d) Extern storage class