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(20321) Roll No.
B.C.A.-I Sem.

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. $15 \times 3 = 45$

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.

18002/3

P.T.O.

13. Write note on :

- (a) Function
- (b) Header files
- (c) Flow chart
- (d) Extern storage class

18002/4

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