

A

Printed Pages : 3

(21119)

Roll No.

B.C.A.-I Sem.

18002

B.C.A. Examination, November-2019

**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 Questions)

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

1. Write the difference between variables and constants.
2. What do you understand by header files ?
3. What is use of FOR statement used in 'C' Language ?
4. What do you mean by complexity of an algorithm ?
5. Define storage classes.

18002

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18002

(2)

Section-B

(Short Answer Questions)

Note : Answer any *two* questions out of the following three questions. Each question carries 7.5 marks. Short answer is required not exceeding 200 words. $2 \times 7.5 = 15$

6. Explain the structure of 'C' programming with the help of suitable example.
7. Explain console based Input Output functions in 'C' language.
8. Distinguish between call by value and call by reference with the help of suitable example.

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. $3 \times 15 = 45$

9. What is preprocessor directives ? Discuss various types of preprocessors in C.
10. Differentiate among the three-goto, continue, break and exit statements by giving suitable examples.

(3)

11. Explain Brain storming and divide of conquer problem solving technique in detail..
12. (i) Write a 'C' program to find the factorial of a given number.
(ii) Write a program in C language to print the reverse of n digit number.
13. Explain the following :
 - (i) Keywords and Identifiers
 - (ii) Big-Oh notation
 - (iii) Swapping