

1478/I

B.C.A. (PART-I) 1ST SEMESTER EXAMINATION, 2021-22

B.C.A.

INTRODUCTION TO COMPUTER
PROGRAMMING IN 'C'

BCA-104

Paper : IV

Time : 3 Hrs.
समय : 3 घण्टे

Max. Marks : 70
अधिकतम अंक : 70

अनुक्रमांक (अंकों में) :

Roll No. (In Figures)

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अनुक्रमांक (शब्दों में) :

Roll No. (In Words) :

अभ्यर्थी का नाम :

Student Name :

कक्ष परिप्रेक्षक के हस्ताक्षर / Invigilator's Signature :

Note : (i) Answer *five* questions in all.

(ii) Question No.1 is compulsory.

(iii) Answer remaining *four* questions from Section A and B but not more than two question from each section.

(iv) All Questions carry equal marks.

(v) Symbols have their usual meaning.

1. Answer all parts of the following in brief :
 - (a) What do you mean by algorithm ?
 - (b) What do you understand by flowchart ? Give an example.
 - (c) What do you understand by variables in C ? List down the rules to construct a variable in C.
 - (d) Explain the basic structure of a simple C program.

SECTION-A

2. Explain various types of operators in C with giving examples.
3. What is difference between “while” and “do-while” loop in C ? Elaborate your answer with giving examples.
4. Write a C program to check whether a given number is prime or not with proper comment and documentation.
5. What is structure in C ? State the advantages of it over an array in C.

SECTION-B

6.
 - (a) What are function in C ? What are its advantages ?
 - (b) What is array in C ? List down the properties of it.
7.
 - (a) Differentiate between “Continue” and “Break” statement in C with giving examples.
 - (b) Write a program in C to find out the sum of two given integers using user defined function.
8.
 - (a) Differentiate between “call by value” and “call by reference”.
 - (b) Explain the working of “for” loops with example.
9. Write notes on any **two** of the following :
 - (a) Pointers in C
 - (b) “scanf” and “printf”
 - (c) Increment and Decrement operators in C.