

21/1082

B.C.A. Examination, 2021

First Semester

Second Paper

(Programming Principles & Algorithm)

समय : 1.30 घण्टे

पूर्णांक : 75

Time : 1.30 Hours]

[Maximum Marks : 75

Note : Attempt any **five** questions. **All** questions carry equal marks. The answer to given questions should not exceed 300 words each.

1. Explain why C is known as a 'functional' language. Show how functions are used as building blocks in C.

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21/1082

2. With examples, illustrate the different types of operators available in C language.
3. Differentiate between:
- (i) Printf () and scanf ()
 - (ii) getchar () and putchar ()
 - (iii) # include and # define
4. Write about the different decision making structures with examples.
5. Write a program in C for determining whether a number is a prime number or not.
6. Write a C program for computing the GCD of two integers M.N.
7. Write a program in C to generate the sum S of the following series upto N terms, where N is to be supplied at runtime.
- $S = 1 + 2 + 3 + 4 + 5 + \dots + N$

21/1082

✓ 8. Discuss briefly about the different problem solving techniques for designing a software solution to a specified problem.

9. What is the difference between an algorithm and a Flowchart? Are the two, different tools for the same activity? Draw a flowchart for finding the average of a set of numbers denoting the marks obtained by a class of students.

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