(BCA12SK)   **(1501-12K)**

B.C.A. DEGREE EXAMINATION, JULY 2021.

First Year – First Semester

Part II – BCA

Paper I — PROGRAMMING IN "C"

Time : Three hours   Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss about programming languages.

2. Write a C program for Factorial of a given number.

3. Write the differences between Printf and Scanf.

4. Explain Switch statement with Example.

5. Explain break statement with Syntax and Example.

6. How to declare and accessing elements in array?

7. Explain recursive functions with example.

8. Discuss nested structures with example.

9. Define Pointer? How to declaring Pointer variables?

10. Explain how to detecting the End-of-File.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

11. What is an Algorithm? Explain the algorithm for whether the number is even or Odd.

12. Explain structure of C program with One example.

13. Explain basic datatypes in C.

14. Explain the following statements

   (a) if else

   (b) nested if with syntax and examples.

15. Write a C program for matrix multiplication.

16. Explain about String handling functions.

17. Define function. What are the different storage classes in C?

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18. Write the differences between structures and Unions.

19. Explain dynamic Memory allocation.

20. Explain about file Operations.