(BCA12SK)　　　　　　　(1501-12K)

B.C.A. DEGREE EXAMINATION, FEBRURAY 2023.

(Regular)

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. Explain flowchart with one example.

2. Write the structure of C program.

3. Explain I/O statements with examples.

4. Explain switch statement with syntax and example.

5. Explain one dimensional array.

6. Explain break statement with syntax and example.

7. Give a brief note on recursive function with example.

8. Explain nested structures with an example.

9. Define pointer. How to declaring pointer variables? Explain.

10. Explain reading data from files.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

11. Define Algorithm. Explain the key features of algorithms.

12. Explain generations of programming languages.

13. Explain basic data types in C.

14. Explain
   (a) variables
   (b) simple if, if...else statements.

15. Define array. Explain 2-D array with an example.

16. Explain string functions.

17. Define function. Explain storage classes.

18. Give a brief note on
   (a) Unions
   (b) Array of structures
   (c) Function call.

19. (a) Discuss passing arguments to functions using pointer.
   (b) Explain Dynamic memory allocation.

20. Explain
   (a) File modes
   (b) File operations.

——————