Roll No. ....

DD—2855

B.C.A. (Part I) Examination – 2021
Paper Fifth
PROGRAMMING IN 'C' LANGUAGE (OLD COURSE)
Time: Three Hours
Maximum marks: 100
Minimum Pass Marks: 40
Note: Attempt any two part from each question. All Question carry equal marks.

UNIT - I

1. a. What do mean by operators in C language? Explain Logical, Relational and Conditional Operators in brief.

   b. Differentiate between formatted and unformatted IO? Explain getch(), getche(), getchar() functions with example.

   c. Write short notes on following:

   i. if-else   ii. For loop   iii. Do while loop

UNIT - II

2. a. What is an Array? Write a C program to add two matrix using two dimensional array.

b. What is string in C language? Explain strcpy() strcmp() and strlen() functions with example.

c. What is recursive function? Write a C program to find factorial of a given number using recursive function.

UNIT - III

3. a. What is structure? Write a C program to print the details of a students like name roll_number and class using structure.

b. What is Union? How it is different from Structure? Explain with suitable example.

c. Write short notes on following:

   i. Enum   ii. Nested Structure

UNIT - IV

4. a. What do you mean by pointer in C language? Write a C program to access the array elements using pointer.

b. What is dynamic memory allocation? How it is implemented in C language using malloc() calloc() and realloc() function in C language? Explain with example.

c. Write sort notes on the following:

i. array of pointer   ii. Passing pointer to function   iii. Pointer to pointer

UNIT - V

5. a. What is file pointer? Write a C program to read and write a file using file pointer.

b. What do you mean by preprocessor? Explain #include, #define, #if, #elif#endif with suitable example.

c. Explain the following file accessing functions with example:

   i.fopen()   ii. fclose()   iii. fprintf()   iv. fscanf()   v. beof()