

Roll No.

CD-2855

B. C. A. (Part I) EXAMINATION, 2020

(Old Course)

Paper Fifth

PROGRAMMING IN 'C' LANGUAGE

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any *two* parts from each Unit. All questions carry equal marks.

Unit—I

- (a) What is operator ? Explain different types of operators used in C programming language.
(b) Explain console formatted, unformatted I/O functions.
(c) Differentiate between while and do-while statement.

Unit—II

- (a) Explain different string manipulation functions used in C Programming language.
(b) What is function ? Explain function prototype and function call statement with example.

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- (c) What is recursion ? Write a program for factorial of a number using recursion.

Unit—III

- (a) Explain Nested Structure.
(b) What is Union ? How is union defined and declared ?
(c) Write a program to create union to store value of employee like employee name, employee id and salary. Also display all the contents of union.

Unit—IV

- (a) Explain Pointer Arithmetic.
(b) Explain Pointer to Structure.
(c) Write a program in C for swapping two numbers using pointers.

Unit—V

- (a) Write a program in C for reading the contents of file.
(b) Write short notes on the following :
 - fopen
 - fclose
 - fgetc
 - fputc
 - fprintf
(c) Explain conditional/composition directives # if, # else, # elif, # endif, # ifndef etc.

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