Roll No. ....

D–3825

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

(Old Course)

Paper Fifth

PROGRAMMING IN 'C' LANGUAGE

(103)

Time : Three Hours]   [*Maximum Marks : 100*

[*Minimum Pass Marks : 40*

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

Unit—I

1. (a) What is logical operator ? Explain it with example.

   (b) Write difference between while and do-while loop.

   (c) Explain goto and break statement with example.

Unit—II

2. (a) What is array ? Explain its types.

   (b) Explain the following string handling functions :

     (i)   Strlen( )

     (ii)   Strcpy( )

     (iii) Strcmp( )

     (iv) Strrev( )

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   (c) What is function ? Explain recursion function with example.

Unit—III

3. (a) Explain array of structure with example.

   (b) Write difference between structure and union.

   (c) Write short notes on the following :

     (i)   Enum

     (ii)   Typedef

Unit—IV

4. (a) What is pointer ? Explain pointer arithmetic.

   (b) What is dynamic memory ? Explain malloc( ) and calloc( ) function.

   (c) Write short notes on the following :

     (i)   Pointer to function

     (ii)   Pointer to structure

Unit—V

5. (a) Explain the following preprocessor and conditional compilation directives :

     (i)   # define

     (ii)   # if

     (iii) # clif

     (iv) # ifndef

   (b) Explain fread, fwrite, fseek and ferror function.

   (c) Write program to write and read contention of file.