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( )

[2]

   (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.