

Roll No.

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D-3587

B. Sc. (Part I) EXAMINATION, 2020

(New Course)

INFORMATION TECHNOLOGY

Paper Second

(Programming in 'C' Language)

Time : Three Hours]

[Maximum Marks : 50

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

Unit—I

1. (a) Explain the basic data types in 'C'.
- (b) Explain the following functions :
 - (i) `getc ()` and
 - (ii) `putc ()`
- (c) What is typecasting in C programming ?

Unit—II

2. (a) Explain break and switch statement.
- (b) Explain the working concept of call by value and call by reference.
- (c) What is recursive function in 'C' ?

Unit—III

3. (a) Write a program using array in C and explain it.

- (b) What is Union ? Explain.
- (c) What is enum in 'C' Language ? Explain.

Unit—IV

4. (a) Write a program using pointer in C and explain it.
- (b) What is dynamic memory allocation ? Explain.
- (c) Explain pointer to structure in 'C'.

Unit—V

5. (a) Explain any *two* file handling functions.
- (b) Explain the use of `Fopen` and `Fclose`.
- (c) Differentiate between the operation of :
 - (i) `Fwrite` and `Fprintf`
 - (ii) `Fread` and `Fscanf`

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