

Roll No.

E-3597

B. Sc. (Part I) EXAMINATION, 2021

(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) Differentiate following :
 - (i) Keyword and Identifier
 - (ii) Constants and Variables
- (b) Explain operator precedence and associativity.
- (c) Describe formulated console input/output functions in 'C.'

Unit—II

2. (a) Write a program to print multiplication table of inputted number.
- (b) Write an explain steps to create a user-defined function.
- (c) Write the difference between break and continue statements.

P. T. O.

Unit—III

3. (a) What is an Array ? Describe array declaration, initialization and accessing elements with help of an example.
- (b) Write difference between structure and union with suitable examples.
- (c) What are typedef and enum in 'C' language ?

Unit—IV

4. (a) What is pointer arithmetic ? Explain with example.
- (b) Explain calloc(), malloc() and realloc() functions with proper syntax and example.
- (c) Write a program to create a function accepting pointer arguments (integer) and demonstrate swypping between two numbers.

Unit—V

5. (a) Write syntax and explain the functions named fprintf() and fscanf().
- (b) Explain fseek() and rewind() function with proper syntax.
- (c) Describe the purpose of #define directive with example.