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**Unit—III**

3. (a) Write a C program to calculate factorial of a number using recursive function.
- (b) What do you understand by multidimensional array ? Write a program in C to search element in array.
- (c) What do you understand by Structure ? Explain with example.

**Unit—IV**

4. (a) Write a Program using pointer to search largest number in array.
- (b) Specify calloc, malloc and realloc with example.
- (c) Highlight the usage of & and \* operators with example in context with pointers.

**Unit—V**

5. (a) Highlight the features of C preprocessor with example.
- (b) Specify the features of rewind, fseek and ferror with an example.
- (c) Explain the features of file pointer with example.

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**B. Sc. (Part I) EXAMINATION, 2020**

(New Course)

COMPUTER SCIENCE

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) Specify different data types in C.
- (b) What do you understand by operators ? Point out various operators with its precedence.
- (c) Write a program in C to generate Fibonacci series for  $n$  terms.

**Unit—II**

2. (a) Describe the concept of loop. Differentiate between while loop and do while loop with example.
- (b) Differentiate between call by value and call by reference with example.
- (c) What do you understand by recursive function ? Explain with example.

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