



**LJ-1284**

**B.Sc. (Part-I)**

Term End Examination, 2021

**INFORMATION TECHNOLOGY**

Paper - II

Programming in 'C' Language

*Time* : Three Hours]                      [*Maximum Marks* : 50

[*Minimum Pass Marks* : 17

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**Note** : Answer any **two** parts from each question. All questions carry equal marks.

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**Unit-I**

1. (a) Explain the basic structure of 'C' program.
- (b) What do you understand by Operators ? Explain various operators with its precedence.

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(c) Explain the following I/O functions :

(i) getch()

(ii) getche()

(iii) getchar()

(iv) putc()

(v) putchar()

#### **Unit-II**

2. (a) What is Loop ? Explain difference between while and do-while.
- (b) What is function in 'C' ? How is it defined ? What are its arguments ? Explain with example.
- (c) Explain utility of call by reference.

#### **Unit-III**

3. (a) What is Array ? Explain types of Array.
- (b) Explain any five string library functions.
- (c) Explain the differences between structure and union.

#### **Unit-IV**

4. (a) What is Pointer in 'C' ? Define and declare pointer with example.

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- (b) What is the difference between static memory allocation and dynamic memory allocation? Explain the difference between malloc() and calloc() function.
- (c) Explain Array of pointer and pointer to an Array.

### Unit-V

5. (a) Explain the following :
- (i) fprintf
  - (ii) fscanf
  - (iii) fflush
  - (iv) fseek
- (b) How can you handle the file in 'C'? Explain with program.
- (c) Write notes on the following :
- (i) #else
  - (ii) #if
  - (iii) endif
  - (iv) elif
  - (v) #define
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