

[2]

- (b) What is recursion? Write a program to print fibonacci series using recursion.
- (c) Explain different types of loops available in 'C' language. Explain in brief.

**Unit-III**

- Q.3.**
- (a) What is array? Explain its type.
  - (b) Explain structure within structure with example.
  - (c) Write difference between structure and union.

**Unit-IV**

- Q.4.**
- (a) What is Pointer? How it is declare? Explain use of '&' and '\*' operator.
  - (b) Explain Pointer to Pointer with example.
  - (c) Explain pointer to structure with example.

**Unit-V**

- Q.5.**
- (a) Write all the modes used in fopen ().
  - (b) Explain various conditional compilation directives.
  - (c) Explain the following (any 5)
    - (i) fflush()    (ii) fseek()    (iii) #include
    - (iv) fprintf    (v) #define    (vi) fgetc()

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[1]

ROLL NO.....

**BS1CS02/21**

**ANNUAL EXAMINATION, 2021**

**B.Sc.-I**

**COMPUTER SCIENCE**

**PAPER-II**

**PROGRAMMING IN 'C'**

**TIME: 3 HOURS**

**Maximum: 50**

**Minimum: 17**

**Note: Attempt any two parts from each unit. All question carry equal marks.**

**Unit-I**

- Q.1.**
- (a) Explain Operator Precedence and Associativity.
  - (b) Write short notes on (any two)
    - (i) Type Casting
    - (ii) Variable
    - (iii) Constant
  - (c) What is 'C' Language? Explain structure of 'C' Program.

**Unit-II**

- Q.2.**
- (a) Differentiate call by value and call by reference with example.