## UNIT - V

- 9. (a) Write the syntax for opening a file with various modes and closing a file [4]
  - (b) Explain the following preprocessor directives:i. #include ii. #define [4]
  - (c) Write a short notes on: i. fgets() ii. fputs() [6]
- 10. (a) Write about different error handling functions on files? [4]
  - (b) Explain the following file handling functions:
    - i) fseek() ii) ftell() [4]
  - (c) Write a C program to copy the contents from one file to another file. [6]

## **UG EVEN SEMESTER (CBCS) EXAMINATION, SEPTEMBER - 2021**

## **COMPUTER SCIENCE**

2<sup>nd</sup> Semester

COURSE NO. MCSCC - 201 (Programming in C)

Full Marks: 70 Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

(Answer any five questions, taking one from each unit)

## UNIT - I

- (a) Differentiate among compiler, assembler and interpreter.
   [4]
  - (b) Draw a flowchart to find whether the number is even or odd. [4]
  - (c) Define algorithm. Write characteristics of algorithm. [6]
- 2. (a) Explain basic data types with their range and example.

[4]

Differentiate among high level, low level and middle level (c) Write a program to print the array elements in reverse language. [4] order. (a) Illustrate multidimensional arrays with example program. Draw a flowchart to check a number is prime number or [6] not. (b) Write a program to find maximum and minimum number UNIT - II from an array of 10 elements. What is a function? Write a C program to explain call-3. by-reference parameter passing technique. (c) Write a program to read and display the elements using [8] 1-D array. Differentiate between puts() and gets(). [2] UNIT - IV Define pointer. How to declare and initialize it. [4] (a) Define structure and explain how it differs from other data types. What is meant by call-by value and call-by reference? Write a C program to illustrate call-by-value parameter (b) Define Union? How to represent an union? passing technique. [8] (c) How to copy and compare structure variables? Illustrate Differentiate between putchar() and getchar(). [2] with example. What is recursion? What are the advantages and Disadvantages of recursion? [4] 8. (a) What do you mean by array of structure? Explain with example. UNIT - III (b) Write some of the differences between Structure and Define array. Explain the basic concept of array. [4] Union? 5. How to declare and initialize a Two-dimensional array? (c) Write a C program to illustrate the concept of structure Discuss with Examples. within structure. [4]

[6]

[4]

[4]

[6]

[4]

[4]

[6]

[4]

[4]

[6]