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Draw the flow chart and write the algorithm to find the roots of a quadratic equation for OR

3. Discuss about the following operators in C language with example a) Bitwise operators b) Increment and decrement operators c) Logical operators [10]

Explain about switch statement and Write a program to perform arithmetic operations 4. using switch. [10]

### OR

#### What is recursion? What are the advantages and disadvantages of recursion? 5.a) Write a C program to find the factorial of a numbers using recursion. b)

Write a C program to print the multiplication table for numbers 1 to n using two 6. dimensional arrays. [10]

### OR

- 7.a) Explain the concept of array of pointers with examples.
- Explain the declaration of pointers and pointer to pointer with examples. b) [10]
- Discuss command line arguments in detail with examples. 8.a)
- How to copy and compare structure variables? Illustrate with example. b) [10] OR
- 9. Write a C program to find the length of a string and reverse the given string without using string handling functions. [10]
- 10. Write a C program to display the contents of the file in reverse order. [10] OR
- Explain the following file handling functions: 11. b) ftell() c) rewind() a) fseek() d) feof()

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, April/May - 2019 COMPUTER PROGRAMMING USING C

# Time: 3hrs

1.a)

b)

c)

d)

e)

2.

all the cases.

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

# PART - A

What is flowchart? Explain different symbols used for flowchart. Explain continue and break statements in C. What is array? How to declare array? Explain applications of array. Explain declaration and initialization of array of strings. How does the fopen ( ) works? Explain it with example.

# PART - B

#### [5] [5]

5 × 5 Marks = 25

[5]

[5]

[5]

[10]

[10]



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Max.Marks:75

[10]

