Code No: 131AD

R16

Time: 3 hours

Max. Marks: 75

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

(25 Marks)

1.a)	Define the term algorithm and how it is different from a flow chart.	[2]
b)	Distinguish between if and switch statements.	[3]
c)	Explain auto and register storage classes.	[2]
d)	What is meant by type qualifier?	[3]
e)	What is meant by array of pointers? When it will be useful?	[2]
f)	Distinguish between string and character.	[3]
g)	Explain how to define a union.	[2]
h)	Explain the concept of enumerated type.	[3]
i)	What is meant by a text file?	[2]
j)	Discuss about rewind function?	[3]

PART-B

(50 Marks)

2.   Write a C program to find factorial of a given number N by using 'while' loop and 'do-while' loop.   [10]

OR

3.   What are the C operators? Explain their usage with suitable examples to each of them.
    [10]

4.a)   Distinguish between iteration and recursion.
  b)   What is meant by user defined functions? Explain with an example C Program. [5+5]

OR

5.a)   Explain the binary search method.
  b)   Perform bubble sort of the following numbers:
            20, 5, 30, 10, 65, 3, 90   [5+5]

6.a)   What are the advantages and drawbacks of pointers?
  b)   With a sample C program and explain about passing an array to a function.   [5+5]

OR

7.   What are the string manipulation functions? Explain their usage.   [10]

8. Explain about self referential structures with a sample C program. [10]

OR

9.a) Discuss the significance of preprocessor commands.
   b) Explain about nested structures. [5+5]

10. What is meant by state of a file? Write a C program to copy the contents of one text file to another text file. [10]

OR

11. What is meant by binary file? Discuss about file positioning functions? [10]

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