Mumbai Education Trust's

INSTITUTE OF ENGINEERING, NASHIK.

COMPUTER ENGINEERING DEPARTMENT

Subject : DSA	**ASSIGNMENT NO – 06**	**Unit - VI**

1. What is file? List different file opening modes in C++. Explain concept of inverted files.

2. What is Sequential and index sequential file organization? State its advantages and disadvantages.

3. Explain any 4 modes of opening the file in C or C++.

4. Explain indexed sequential file organization. Compare it with direct access file

5. Explain inverted file & cellular partitions.

6. Explain direct access file organization. State its advantages and disadvantages.

7. Write short note on external sort.

8. Explain multilist files & coral rings.

9. Compare sequential, indexed sequential and direct access files.

10. Explain any 3 operations carried out on sequentail file and its pseudo code.

11. Explain following operations carried out on sequential files.

    i) Add

    ii) Delete

    iii) Search

12. Write short notes on:

    i) Factors affecting the file organization

    ii) Indexed sequential files

    iii) Indexing techniques

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13.   A write a C++ program to create a file. Insert records into the file by opening file in append mode. Search for a specific record into file.

14.   Sort the following elements using two way merge sort with m = 3.

         20, 47, 15, 8, 9, 4, 40, 30, 12, 17, 11, 56, 28, 35

15.   A file of employees records, has 'employee no' as primary key and the 'department code' and the 'designation code' as the secondary keys. Write a procedure to answer the following query – 'Which employees from systems department are above designation level 4?.

****************** **Best of Luck** ******************