B.E.Fourth Semester (Computer Engineering) (C.B.S.)

File Structure & Data Processing

P. Pages : 2 **NKT/KS/17/7304**

Time : Three Hours * 0 5 1 0 * Max. Marks : 80

Notes : 1. Solve Question 1 OR Questions No. 2.
2. Solve Question 3 OR Questions No. 4.
3. Solve Question 5 OR Questions No. 6.
4. Solve Question 7 OR Questions No. 8.
5. Solve Question 9 OR Questions No. 10.
6. Solve Question 11 OR Questions No. 12.
7. Assume suitable data whenever necessary.

1. a) Describe file structure design. **7**

b) Explain file processing operations. **7**
1) Open 2) Read
3) Seek

OR

2. a) Describe UNIX Directory structure. **7**

b) Explain buffer management. **7**

3. a) What is record organization and record access. **6**

b) Explain abstract data model for file access. **7**

OR

4. a) Explain metadata & standardization. **6**

b) Explain extensibility portability. **7**

5. a) Explain data compression. **6**

b) Describe internal sorting and binary searching. **7**

OR

6. a) Explain indexing and multiple key indexing. **7**

b) Describe binding. **6**

7. a) Describe object oriented model & its application. **8**

b) Explain file merging for large file on disk. **6**

OR

8.	a)	Explain binary search tree (BST).	**7**
	b)	Describe virtual B-Tree.	**7**
9.	a)	Explain index sequential file access.	**6**
	b)	Explain merging and redistribution.	**7**

OR

10.	a)	What is hashing & explain hashing algorithm.	**6**
	b)	Explain collision resolution.	**7**
11.		Write short note on.	**13**
	a)	External hashing.	
	b)	Pattern of record access.	

OR

12.		Write short note on.	**13**
	a)	B^+ tree.	
	b)	AVL tree.	

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