

A.Y.-2023-24 – T Y B Tech – Department of Computer Engineering																																												
ODD SEMSTER (SEM- V)																																												
Subject: Advanced Database Management System			Subject Code: PCCO50402T																																									
Term Test – I																																												
Unit- 1-6 Hrs																																												
15 Marks																																												
Q. No.	Questions (Statement)	CO Mapped	Blooms' Level	Max. Marks	PI																																							
Unit-I Advance Database																																												
Q1	Suppose that we have an ordered file with r = 10,000 records stored on a disk with block size B = 1000 bytes. File records are of fixed size and are unspanned, with record length R = 250 bytes. Also, suppose that the ordering key field of the file is 10 bytes long, a block pointer is 10 bytes long, and we have constructed a primary index for the file. Find out: 1. Cost of searching for a record using Binary Search on the data file. 2. Cost of searching for a record using the primary index.	CO1	L3	10	1.3.1																																							
Q2	Consider empdept table and if search key is deptid then which type of indexing is used and why? Also draw the index table of the same if one block can hold at most three records. <table><tr><th>Deptid</th><th>Ename</th><th>Salary</th></tr><tr><td>1001</td><td>WADE</td><td>6000</td></tr><tr><td>1001</td><td>BLAZE</td><td>2750</td></tr><tr><td>1001</td><td>CLARE</td><td>2550</td></tr><tr><td>2001</td><td>JONAS</td><td>2957</td></tr><tr><td>2001</td><td>SCARLET</td><td>3100</td></tr><tr><td>2001</td><td>FRANK</td><td>3100</td></tr><tr><td>2001</td><td>MARKER</td><td>9000</td></tr><tr><td>2001</td><td>JONAS</td><td>1700</td></tr><tr><td>3001</td><td>WADE</td><td>1350</td></tr><tr><td>3001</td><td>TUCKER</td><td>1600</td></tr><tr><td>3001</td><td>ADNRES</td><td>2550</td></tr><tr><td>3001</td><td>MARKER</td><td>1400</td></tr></table>	Deptid	Ename	Salary	1001	WADE	6000	1001	BLAZE	2750	1001	CLARE	2550	2001	JONAS	2957	2001	SCARLET	3100	2001	FRANK	3100	2001	MARKER	9000	2001	JONAS	1700	3001	WADE	1350	3001	TUCKER	1600	3001	ADNRES	2550	3001	MARKER	1400	CO1	L4	10	2.2.3
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Q3	Describe General and Federated Architecture of Distributed System.	CO1	L2	10	1.4.1																																							
Q4	Compare and contrast between Document Oriented Database and Traditional Database.	CO1	L3	10	2.2.4																																							
Q5	Compare and contrast between B-tree and B+ tree.	CO1	L3	5	2.2.4																																							

Q6	What are multimedia databases (MMDBs)? List some of the applications of MMDBs.	CO1	L2	5	1.4.1
Q7	Document Oriented Databases support which document formats? Write example of each.	CO1	L2, L3	5	1.4.1
Q8	Explain Architectures for NXDs.	CO1	L2	5	1.4.1

Course Teachers

Module Coordinators

Program Coordinator

HoD