

Maturi Venkata Subba Rao Engineering College
Department of CSE
B.E IV-SEMESTER(2021-22) DBMS ASSIGNMENT – 2
LAST DATE OF SUBMISSION: 27-JUN-2022

- 1 Explain Fundamental Relational algebra operations.
- 2 Explain Extended Relational algebra operations.
- 3 What is the purpose of creating views?
- 4 Write relational algebra expression for the following select statement
 - a. Select empno,ename,deptno,dname from EMP,DEPT where EMP.deptno=DEPT.deptno
 - b. Select empno,ename,sum(sal) from EMP group by deptno
- 5 What is difference between primary and secondary index?
- 6 Draw dense index using any example
- 7 Draw sparse index using any example
- 8 Construct the B+ tree index structure for the given set of search keys that can accommodate four (4) pointers in a node. 5 2 3 5 7 11 17 19 23 29 31 35
- 9 What is the advantage of Dynamic hashing over static hashing?
- 10 Write short notes on multi level indexing.
- 11 Differentiate B Tree and B+ Tree.
- 12 Define ACID properties.
- 13 Write short notes on bitmap indices.
- 14 Draw transaction state diagram and explain transaction states.
- 15 How do we test for view serializability explain considering suitable example.
- 16 How do we test for conflict serializability explain considering suitable example
- 17 What is cascading rollback?
- 18 What is blind write?
- 19 Define Trigger and write the syntax of it.
- 20 Explain Two phase locking protocol.
- 21 Explain Timestamp ordering protocol
- 22 Write short note on parallel databases, multimedia databases, multidimensional databases.
- 23 Write short notes on Data warehouse, OLTP, OLAP, NoSQL Databases.
- 24 Write short notes on NULL values.