ANURAG Engineering College

(An Autonomous Institution)

II B.Tech II Semester Supplementary Examinations, December-2024 DATABASE MANAGEMENT SYSTEMS (COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours Max. Marks: 75

Section – A (Short Answer type questions) Answer All Questions		Course Outcome	(25 B.T Level	Marks) Marks
1.	List the database Applications.	CO1	L1	2M
2.	Explain different types of database users.	CO1	L2	3M
3.	What are different SQL Commands?	CO2	L1	2M
4.	Define Join? Explain different types of joins.	CO2	L1	3M
5.	Define First Normal Form	CO3	L1	2M
6.	Illustrate multi valued dependencies and Fourth normal form with example.	CO3	L3	3M
7.	Discuss different phases of transaction.	CO4	L2	2M
8.	Write short notes on tree extensions	CO4	L1	3M
9.	Explain ARIES Remote Backup Systems.	CO5	L2	2M
10.	Discuss about Failure Classification.	CO5	L2	3M
Section B (Essay Questions) Answer all questions, each question carries equal marks. (5 X 10M = 50M)				
11. A)	Describe in detail the Architecture of DBMS with diagram. OR	CO1	L3	10 M
В)	Explain Binary and Ternary Relationships with example. And Explain Entity- Relationship Design Issues.	CO1	L2	10M
12. A)	What aggregate operators does SQL support? Explain with examples.	CO2	L1	10M
B)	OR Explain the different data types in SQL.	CO2	L2	10M
13. A)	Explain Tuple relational calculus and Domain relational calculus in Detail.	CO3	L2	10M
	OR			
B)	What are the conditions are required for a relation to be 2 NF,3NF and BCNF explain with example.	CO3	L1	10M
14. A)	What is Transaction? Explain ACID Properties. OR	CO4	L2	10M
B)	Explain View serializability and conflict searilizability with example.	CO4	L2	10M
15. A)	Discuss the failures that can occur with loss of Non-volatile storage. OR	CO5	L3	10M
B)	Explain 3 phases in ARIES algorithm.	CO5	L2	10M