ANURAG Engineering College

(An Autonomous Institution)

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

Time: 3 Hours Max. Marks: 75

1. Wh 2. Co 3. Co 4. Wr 5. Wh 6. Lis 7. Wh 8. De 9. Wh	Section – A (Short Answer type questions) r All Questions nat is DDL? mpare Strong entity Vs Weak entity nstruct SQL query to retrieve details of employees joined in year 1996. ite SQL syntax to create table along with constraints. nat is FIRST Normal Form? t basic operations of Relational algebra. nat are desirable properties of transaction? fine serial schedule. ny is concurrency control needed? t types of failures.	Course Outcome CO1 CO1 CO2 CO2 CO3 CO3 CO4 CO4 CO5 CO5	(25 B.T Level L1 L2 L2 L2 L1 L1 L1 L1 L1 L2 L1	Marks) Marks 2M 3M
Section B (Essay Questions)				
Answe 11. A)	r all questions, each question carries equal marks. Explain the characteristics of DBMS.	(5) CO1	X 10M : L2	= 50M) 10M
11. A)	OR	COI	LZ	TOIVI
B)	Design an ER model for simple library management system.	CO1	L3	1 0M
12. A)	Construct the SQL quires for the following. i) Retrieve the details employees whose name starts with 'A'. ii) Retrieve the name of employee who is earning highest salary. iii) Display the details employees in ascending order of their salaries department wise. OR	CO2	L3	10M
B)	What are integrity constraints? How they are specified using SQL explain with examples.	CO2	L3	10M
13. A)	Explain basic relational algebra operations with suitable examples. OR	CO3	L3	10M
B)	What are the guidelines for good design of relational database? Discuss.	CO3	L3	10M
14. A)	How indexing is useful in DBMS? Explain B+ Tree index in details. OR	CO4	L2	10M
·B)	What are serial schedules? Explain procedure to test conflict serilazability of schedule.	CO4	L3	10M
15. A)	Explain techniques for concurrency control in DBMS. OR	CO5	L2	10M
B)	Explain ARIES algorithm.	CO5	L2	10M

