



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

DESCRIPTIVE QUESTIONS

Name of Course Instructor: Dr O Ramadevi
 Course Name & Code : DBMS & 20CS03
 L-T-P Structure : 3-0-0
 Program/Sem/Sec : B.Tech/III/A&B

Reg :R23
 Cycle :1
 Credits : 3
 A.Y : 2025-26

Q.No	Question Description	Unit #	CO#	BL
1	a) Differentiate between File system and DBMS b) Explain advantages and applications of DBMS	1	1	2
2	a) List out different types of DBMS Models. b) Discuss the concept of schema and instances and data independence.	1	1	2
3	a) Describe the structure of DBMS b) Explain DBMS Architecture with neat diagram	1	1	2
4	a) Explain the three tier schema architecture. b) Discuss the following concepts i) Data Mapping ii) Data Abstraction iii) Environment	1	1	2
5	a) Explain the centralized architecture for database. b) Discuss the types of architecture with neat diagrams.	1	1	2
6	a) Explain the ER diagram with example b) Explain types of Entities and Attributes with example.	2	2	2
7	a) Explain the following concepts i) Inheritance ii) Super class iii) Sub class.	2	2	2
8	b) Explain the following concepts i) Generalization & Specialization ii) key constraints iii) Domain Constraints. c) Explain the concept of Relational model.	2	2	2
9	a) Explain the Relational Algebra operations. b) Explain the Integrity constraints over Relation.	2	2	2
10	a) Explain different types of Calculus with suitable examples. b) Differences between Tuple Relation Calculus and Domain Relation Calculus	2	2	2

Title	Course Instructor	Course Coordinator	Module Coordinator	Head of the Department
Name of the Faculty	Dr O Rama Devi	Dr.O.Rama devi	Dr D.Srinivas Rao	Dr.P.Bhagath
Signature				