



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

Department of Electronics and Communication Engineering

Descriptive Questions (UNIT-I)

Name of the Course Instructor: Michael Sadgun Rao Kona

Unit: I

Course Name & Code : Introduction to Database & 17IT80

A.Year: 2021-22

Program/Sem./Section : B.Tech / VII Sem. / A, B & C

Q.N o.	Question Description (Minimum 10 questions)	CO	BL	Class / Assignment	Date
1	Summarize Overall Database structure with neat diagram	CO1	L2	Assignment	
2	Discuss the different types of user-friendly interfaces?	CO1	L2	Assignment	
3	List out different types of DBMS users. Discuss about each type of user?	CO1	L2	Assignment	
4	Define Data, Database and DBMS? Identify the advantages of using a Database approach?	CO1	L1	class	
5	Describe the three-schema architecture?	CO1	L2	Assignment	
6	Discuss typical functionality of DBMS?	CO1	L2	class	
7	List out main characteristics of DBMS?	CO1	L1	class	
8	Explain about different Database languages?	CO1	L2	class	
9	Summarize the history of databases?	CO1	L2	class	
10	Differentiate DBMS with file system?	CO1	L2	class	

Course Instructor

[Mr. Michael Sadgun Rao K]

Module Co-ordinator

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Descriptive Questions (UNIT-II)

Name of the Course Instructor: Michael Sadgun Rao Kona

Unit: II

Course Name & Code : Introduction to Database & 17IT80

A.Year: 2021-22

Program/Sem./Section : B.Tech / VII Sem. / A, B & C

Q.No.	Question Description (Minimum 10 questions)	CO	BL	Class / Assignment	Date
1	Discuss about the role of Entity type and types of attributes in ER diagrams with an example?	CO2	L2	Assignment	
2	Describe about Relationship types and constraints on relationships?	CO2	L2	Assignment	
3	Explain Specialization and Generalization with an example?	CO2	L2	Assignment	
4	Illustrate Aggregation with an example?	CO2	L3	Assignment	
5	Draw a complete ER diagram with entity type, attributes, relationships for COMPANY database with entities EMPLOYEE, DEPARTMENT, DEPENDENT and PROJECT?	CO2	L3	Class	
6	Define attribute? List different types of attributes? Summarize about each type of attribute?	CO2	L2	Class	
7	Illustrate about relationships of higher degree with a suitable example?	CO2	L3	Class	
8	Discuss the role of keys in ER diagrams?	CO2	L2	Class	
9	Discuss about reduction of ER diagrams into tables?	CO2	L2	Class	
10	Draw a complete ER diagram with entity type, attributes, relationships for UNIVERSITY database	CO2	L3	Class	

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Descriptive Questions (UNIT-III)

Name of the Course Instructor: Michael Sadgun Rao Kona

Unit: III

Course Name & Code : Introduction to Database & 17IT80

A.Year: 2021-22

Program/Sem./Section : B.Tech / VII Sem. / A, B & C

Q.No.	Question Description (Minimum 10 questions)	CO	BL	Class / Assignment	Date
1	Describe the following Integrity Constraints with suitable example i)Domain constraints ii) Entity Integrity iii)Referential Integrity iv) Key Constraint	CO3	L2	Assignment	
2	Describe the following Relation Algebra Functions with suitable example i) Selection ii) Projection iii) Union iv) Set Intersection v) Set Difference vi) Cartesian Product vi) Rename	CO3	L2	Assignment	
3	Illustrate the following SQL commands with suitable examples. i) Alter ii)Create iii)Drop iv)Truncate	CO3	L3	class	
4	Explain the following TCL commands with suitable examples. i) Commit ii) Rollback iii)Save Point	CO3	L2	class	
5	Illustrate the following SQL commands with suitable examples. i) Insert ii)Update iii)Delete	CO3	L3	Assignment	
6	Illustrate different aggregate functions available in SQL with suitable examples.	CO3	L3	class	
7	Discuss about SQL Data Types?	CO3	L2	class	
8	Discuss about 'group by' and 'having' clauses in SQL select query?	CO3	L2	class	
9	Discuss about 'where' and 'order by' clauses in SQL select query?	CO3	L2	class	
10	Illustrate sub queries in SQL with suitable examples?	CO3	L3	class	

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Descriptive Questions (UNIT-IV)

Name of the Course Instructor: Michael Sadgun Rao Kona

Unit: IV

Course Name & Code : Introduction to Database & 17IT80

A.Year: 2021-22

Program/Sem./Section : B.Tech / VII Sem. / A, B & C

Q.N o.	Question Description (Minimum 10 questions)	CO	BL	Class / Assignment	Date
1	Explain the following Inference Rule (Axioms) with suitable example i) Reflexive Rule ii) Augmentation Rule iii) Transitive Rule iv) Union Rule v) Decomposition Rule vi) Pseudo Transitive Rule	CO4	L2	Assignment	
2	Illustrate Third normal form with suitable examples.	CO4	L3	Assignment	
3	Discuss the concept of Multivalued Dependency.	CO4	L2	Assignment	
4	Discuss about Functional Dependency.	CO4	L2	Assignment	
5	Illustrate First Normal Form with suitable example	CO4	L3	Class	
6	Illustrate Second Normal Form with suitable example	CO4	L3	Class	
7	Illustrate BCNF with suitable example	CO4	L3	Assignment	
8	Explain briefly about Join Dependency?	CO4		Class	
9	Discuss about inclusion dependency?	CO4	L2	Class	
10	Illustrate Lossless join decomposition with a suitable example?	CO4	L3	Class	

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Descriptive Questions (UNIT-V)

Name of the Course Instructor: Michael Sadgun Rao Kona

Unit: V

Course Name & Code : Introduction to Database & 17IT80

A.Year: 2021-22

Program/Sem./Section : B.Tech / VII Sem. / A, B & C

Q.No	Question Description (Minimum 10 questions)	CO	BL	Class / Assignment	Date
1	Discuss about the ARIES algorithm.	CO5	L2	Assignment	
2	Explain briefly about ACID properties in DBMS?	CO5	L2	Assignment	
3	What is the deadlock in DBMS? Discuss briefly about deadlock avoidance and deadlock prevention in DBMS?	CO5	L2	Assignment	
4	Describe briefly about log based recovery?	CO5	L2	Assignment	
5	Demonstrate the concept of Deadlock Handling.	CO5	L3	Assignment	
6	Demonstrate the concept of Conflict and View Serializable Schedule	CO5	L3	class	
7	Explain briefly about serializability of schedules?	CO5	L2	class	
8	Describe the role of checkpoints in transaction management?	CO5	L2	class	
9	Discuss briefly about recoverability?	CO5	L2	class	
10	Summarize the process of testing the serializability?	CO5	L2	class	

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