Vidyalankar School of Information Technology
SYBSc IT Semester III
Subject: *Database Management System*
Faculty Members: *Aasha Chavan, Rohini Desai*

Remedial Questions

Unit – I	

1	Define following Terms with example:
	  i.Data
	  ii.Database
	  iii.DBMS.

2	Define attributes and their four types with example.
3	Explain any 5 Codd's rules.
4	Write a short note on the 2-Tier Architecture of database management with advantages and disadvantages.

5	Define the following terms with example:
	  i.Entity
	  ii.Attributes
	  iii.Relationships

6	Explain benefits of Database System over File System.
7	Explain Hierarchical Model with advantages and disadvantages.
8	Explain Network Model with advantages and disadvantages.
Unit – II	
1	Explain Primary Key and Foreign key with example.
2	Define Normalization and explain 1NF and 2NF with example.
3	Explain Selection Operation and Projection in detail with example.
4	Write a short note on Outer Join in relational algebra with its types.
5	Explain and Super Key and Candidate key with example.
6	Explain Set Operators with example.
7	Define Inner Join and Cross Join in relational algebra and explain with suitable example.
8	Define and explain Candidate key and Primary Key with example.
Unit – III	
1	Explain Unique and Not Null constraints with example.
2	Explain DDL Commands in SQL.
3	List and Explain Aggregate functions in SQL with example.
4	Define View. Explain any two types of View with Example.
5	Explain Primary key and foreign key constraints with example.
6	Explain DML commands with example.
7	Explain Check and Not Null constraints with example
8	Explain Pattern Matching operator in SQL with example.
Unit – IV	
1	Explain working of transaction state diagram.
2	Define schedules and explain any one type in detail.

3	Explain Shared and Exclusive locks
4	Explain two phase locking(2PL) in detail.
5	Explain ACID properties of transaction.
6	What is Deadlock? Explain Deadlock recovery detail.
7	Explain Optimistic concurrency control (OCC) in detail
8	Explain ACID properties of transaction.
Unit – V	
1	What is PL/SQL and Explain Sections of PL/SQL Block.
2	Explain if else conditional statement in PL/SQL with example.
3	Write and explain syntax of PL/SQL procedure with example.
4	What is PL/SQL and Explain advantages of PL/SQL.
5	Explain for loop in PL/SQL with example.
6	Write and explain syntax of PL/SQL function with example.
7	Define PL/SQL and Explain its structure.
8	Explain Case expression in PL/SQL with example.

Signature of Faculty Member

Name:

1) Aasha Chavan

2) Rohini Desai

Signature of In-Charge

Name: Dr. Pallavi Tawde

Name of Cluster: Software Development