

SHIVAJI COLLEGE, UNIVERSITY OF DELHI
DEPARTMENT OF COMPUTER SCIENCE
INTERNAL TEST (Academic Year 2023-24)

Name of the Course	: GE-3	Semester	: III
Name of the Paper	: Database Management System	Faculty Name	: K.K.S. Gautam
Duration	: 1 Hour	Maximum Marks:	24
Date of Test	: 09.10.2023		

SET A

1. Who is a database administrator? What are the various responsibilities of a DBA?
2. Define the term data model. Explain different types of data models.
3. Differentiate between a super key, a candidate key, foreign key and primary key.
4. Design an E-R diagram for an IT training group database that will meet information needs for its training program.
5. What is SQL? What are the two major categories of SQL commands? Explain them.
6. What is the use of constraints? What are the different types of constraints that can be specified? Explain with examples.

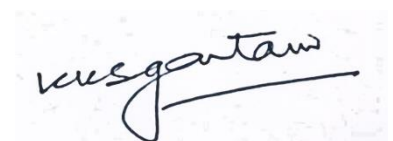
SET B

1. Explain the three-level architecture of DBMS with the help of an example. Mention its advantages also.
2. Write a short note on DDL & DML with example.
3. Define the term relationship. Illustrate the difference between relationship type and relationship instance.
4. Design an E-R diagram for a Bank database having customer, loan, account, employee & branch entity types.
5. What is data type of SQL? What are the various data types supported by standard SQL?
6. What are the Anomalies in DBMS? How to avoid anomalies?

SET C

1. What is data independence and why is it important? What is the difference between logical and physical data independence?
2. What is an E-R model? What are its advantages?
3. Design an E-R diagram for the online book database.
4. Which operator of SQL is used to specify string pattern in the queries? Explain in details with examples.
5. Explain the term Domains, Attributes, Tuples, and Relations data model.
6. Illustrate the difference between primary key and foreign key.

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SET D

1. What is database schema? Explain with the help of an example.
2. Define the term entity. What is the difference between strong entity and weak entity?
3. Discuss the difference between specialization and generalization with the help of an example.
4. Discuss the E-R diagram notations with example.
5. What is SQL? Explain SQL architecture also.
6. Design an E-R diagram for a company database.

Faculty Signature:

