SHIVAJI COLLEGE, UNIVERSITY OF DELHI DEPARTMENT OF COMPUTER SCIENCE

INTERNAL ASSIGNMENT/PROJECTS/PRESENTATIONS

(Academic Year 2023-24)

Name of the Course : GE-3 Semester : III

Name of the Paper : Database Management System Maximum Marks : 24

Faculty Name : K.K.S. Gautam Last Date of Submission: 27.09.2023

1. Who is a database administrator? What are the various responsibilities of a DBA?

- 2. Explain the three-level architecture of DBMS with the help of an example. Mention its advantages also.
- 3. What is data independence and why is it important? What is the difference between logical and physical data independence?
- 4. What is database schema? Explain with the help of an example.
- 5. Define the term data model. Explain different types of data models.
- 6. Write a short note on DDL & DML with example.
- 7. What is an E-R model? What are its advantages?
- 8. Define the term entity. What is the difference between strong entity and weak entity?
- 9. Explain the various types of attributes example.
- 10. Differentiate between a super key, a candidate key, primary key and foreign key.
- 11. Define the term relationship. Illustrate the difference between relationship type and relationship instance.
- 12. Discuss the difference between specialization and generalization with the help of an example.
- 13. Design an E-R diagram form an IT training group database that will meet information needs for its training program.
- 14. Discuss the E-R diagram notations with example.
- 15. Design an E-R diagram for the online book database.
- 16. Design an E-R diagram for a company database.
- 17. Design an E-R diagram for a Bank database having customer, loan, account, employee & branch entity types.
- 18. What is SQL? What are the two major category of SQL commands? Explain them.
- 19. What is data type of SQL? What are the various data types supported by standard SQL?
- 20. What is the use of constraints? What are the different types of constraints that can be specified? Explain with examples.
- 21. Which operator of SQL is used to specify string pattern in the queries? Explain in details with examples.
- 22. What is SQL? Explain SQL architecture also.
- 23. What are the Anomalies in DBMS? How to avoid anomalies?
- 24. Explain the term Domains, Attributes, Tuples, and Relations data model.

Faculty Signature: