1. Define the benefits of DBMS?

2. Define the different phases of transaction?

3. What do you mean by flat file database?

4. Explain a query?

5. Explain a view? How it is related to data independence?

6. Explain Relationship set?

7. Explain Fully Functional dependency?

8. Explain 4NF?

9. Explain Domain-Key Normal Form?

10. Define partial, alternate, artificial, compound and natural key?

11. Explain indexing and define the different kinds of indexing?

12. Write in brief the four types of indexes.

13. Explain system catalog or catalog relation? How is better known as?

14. Explain SQL and state the differences among SQL and other conventional programming Languages.

15. Explain database Trigger?

16. Name four applications for triggers.

17. Define data and information, and how are they related in a database?

18. Explain Enterprise Resource Planning (ERP), and what kind of a database is used in an ERP application?

19. Write an SQL SELECT statement to display all the columns of the STUDENT table but only those rows where the Grade column is greater than or equal to 90.

20. Name and briefly Write in brief the five SQL built-in functions.

21. Write an SQL SELECT statement to count the number of rows in STUDENT table and display the result with the label NumStudents.

22. Explain an SQL subquery?

23. Explain a foreign key, and explain it used for?

24. Define the steps for transforming an entity into a table?

25. Explain a surrogate key, Write in brief the ideal primary key and Write in brief how surrogate keys meet this ideal

26. Explain a cascading update?

27. Explain a SQL view? Briefly Write in brief the use of views.

28. Write in brief how to add a NOT NULL column to a table.

29. Write in brief what we mean by an ACID transaction.

30. Write in brief what needs to happen to convert a relation to third normal form.

31. Compare a hierarchical and network database model?

32. Write in brief the difference among a dynamic and materialized view.

33. Briefly Write in brief the three types of SQL commands.

34. Define the steps to follow when preparing to create a table?

35. Write in brief a join among tables

36. Write in brief and contrast a trigger and a procedure.

37. Briefly Write in brief an outer join.

38. Write in brief a subquery.

39. Write in brief the differences among a data warehouse and data mart.

40. Write in brief the difference among data and database administration.

41. Define some of the important security features of a DBMS?

42. Write in brief the difference among homogeneous and heterogeneous distributed database.

43. Explain a distributed database?

44. Write a query to print Second highest salary.

45. Define different types of clauses?

46. Explain inner join? Write it’s query

47. Types of joins, slowest and fastest amongst them.