**QUESTION BANK**

**NAME OF THE FACULTY : Ms. V.SANTHI**

**DESINGATION : ASSISTANT PROFESSOR ACADEMIC YEAR : 2019-2020**

**SEMESTER : IV**

**COURSE : DATABASE SYSTEMS**

**COURSE CODE : 16SCCCA4**

**CLASS & BATCH : II BCA ‘A’ & 2018-2021**

**CREDIT HOURS : 5 HRS**

**2 MARKS**

 1. Define Data model.

2. What do you mean by RAD tools?

3. Define tuple variable.

4. What is primary key?

5. List the built in domain types supported by SQL?

6. Write the use of check clause.

7. Define: Entity set.

8. What do you mean by relatianalship set?

9. Define first normal form.

10. What do you mean by lossless decomposition?

11. What is DBMS?

12. Define Storage Manager.

13. Differentiate Strong and Weak entity set.

14. What is Foreign Key?

15. Write any four aggregate functions.

16. Define Views.

17. Write any two components of ER Diagram.

18. Define Normalization.

19. Write a short note on Shadow Paging.

20. What is Serializability?

21. Who is DBA?

22. What do you mean by domain of an attributes?

23. Define candidate key.

24. List out the variety of built – in domain types supported by SQL.

25. What do you mean by “Commit Work”?

26. What do you mean by weak entity set?

27. When a functional dependency is said to be extraneous?

28. Define data.

29. What are the access types of DML?

30. What is super key?

31. What is meant by Null value?

32. What is data definition language?

33. Write a command for create view with eg.

34. What is Referential Integrity?

35. What is entity?

36. What is normalization?

37. What is lossy decomposition?

38. What do you mean by single user and multi-user system?

39. What is distributed processing?

40. List out the components of relational model.

41. What is relational algebra?

42. What is the use of tuple calculus?

43. What is the purpose of normalization?

44. Expand: ACID.

45. What do you mean by Deadlock?

46. Define the term DBMS?

**5 MARKS**

1. What are the classification of data models. Explain.

2. What Explain database Architecture?

3 . Explain database schema?

4. Write notes on Aggregate Functions.

5. Describe in detail about complex queries?

6. Discuss about Embedded SQL?

7. Explain Tuple Relational calculus with example queries.

8. Explain and draw a diagram about Entity Relationship.

9. Write in detail about Boyce Codd Normal form.

10. Explain Database-design process.

11. What is data model? Briefly discuss about four different categories.

12. Write a short note on storage manager.

13. Describe the select and project operations in the relational algebra.

14. Explain with examples the natural-join operation.

15. Discuss the fourth normal form.

16. Explain, how deletion and insertion can be performed in SQL.

17. Write a short note on Domain Relational Calculus

18. Compare RCNF and 3NF.

19. Describe briefly about Data Independence.

20. Who is DBA? Write down the functions of DBA.

21. Discuss about the subqueries in SQL.

22. What does it mean to say that a set of FDS is irreducible? Explain.

23. Write a short note on First normal form.

24. Explain briefly about the system

25. Discuss about the serializability concept.

26. Write a note on Data-Definition Language.

27. Explain the division operation in Relational algebra.

28. Write a note on null values.

29. Describe the following clauses, Select, where.

30. Write a note on Entity-Relationship model

31. Discuss on weak entity sets.

32. Write about Larger schemas.

33. Discuss in detail about Database system structure.

34. Explain the following:

 (i) Database Languages.

 (ii) Database System Applications.

35. Explain in detail about Nested Sub queries with example.

36. Discuss in detail about Modification of database in SQL.

37. Write a brief note on ER Diagram example.

38. Elaborate note on Relational algebra.

39. Discuss in detail about Modification of database in SQL.

40. Write a brief note on ER diagram example.

41. Elaborate note on Deadlock handles example.

42. Describe in detail about Transaction example.

**10 MARKS**

1. Discuss about Database Architecture.

2. Explain the following operations

 (a) Select

 (b) Union

 (c) Catesian-product

3. Discuss about modification of the database.

4. Discuss on Fourth Normal form and decomposition.

5. Write in detail about Relational Databases.

6. Explain about Fundamental Relational-Algebra operations.

7. Describe in detail about basic structure of the Queries.

8. Explain about Entity-relationship Data with suitable example.

9. How to perform decomposition by using function dependencies? Explain.

10. Explain the basic structure of SQL queries.

11. Briefly discuss on Entity-Relationship Diagram.

12. Describe the 3NF with suitable examples.

13. Write about modification of database in Relational model.

14. What is a database system? Discuss components of database system.

15. Why use a database system? What are advantages and disadvantages?

16. Discuss the components of the relational model with one example.

17. Explain the DDL and DML statement SQL.

18. Describe briefly about the eight operation relational algebra.

19. Discuss in detail the domain relational calculus.