

B V RAJU INSTITUTE OF TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech 2 Year 2 Training Examination, Apr 2021

DATABASE MANAGEMENT SYSTEMS

Time: 12 Hours

Max Marks: 23

I. 12

Marks: 23

1. Do we consider NULL values the same as that of blank space or zero?
2. What are the advantages of DBMS?
3. What is an entity-relationship model?
4. Mention the different languages present in DBMS
5. Explain the terms database and DBMS. Also, mention the different types of DBMS.
6. What are the different levels of abstraction in the DBMS?
7. What do you understand by the terms Entity, Entity Type, and Entity Set in DBMS?
8. What do you understand by aggregation and atomicity?
9. What do you understand by query optimization?
10. What are the differences between a DBMS and RDBMS?
11. What do you understand by functional dependency and transitive dependency in DBMS?
12. What is concurrency control?
13. What is normalization and what are the different types of normalization?
14. What is the difference between two and three-tier architectures?
15. What are the ACID properties in DBMS?
16. What do you understand by correlated subqueries in DBMS?
17. What are relationships and mention different types of relationships in the DBMS?
18. What are the different types of keys in the database?
19. Explain Database partitioning and its importance.
20. Mention the differences between Unique Key and Primary Key
21. What do you understand by intension and extension?
22. What are the differences between Hash join, Merge join and Nested loops?
23. What do you understand by Data Independence?
24. What do you understand by Proactive, Retroactive and Simultaneous Update?
25. Mention the differences between Trigger and Stored Procedures
26. Explain the terms specialization and generalization
27. What are the different integrity rules present in the DBMS?
28. What do you understand by cursor? Mention the different types of cursor
29. What are indexes? Mention the differences between the clustered and non-clustered index
30. What is a checkpoint in DBMS and when does it occur?
31. What are the differences between DROP, TRUNCATE and DELETE commands?
32. What does Fill Factor concept mean with respect to indexes?
33. What are the differences between DROP, TRUNCATE and DELETE commands?
34. What is SQL and where is it used?
35. What do you understand by CLAUSE in SQL?
36. What do you understand by sub-queries in SQL?
37. What is Index hunting and how does it help in improving query performance?

38. Explain what is a deadlock and mention how it can be resolved?
39. Mention the differences between UNION and UNION ALL
40. What are the differences between network and hierarchical database model?
41. Write a query to create a duplicate table with and without data present?
42. What are joins in SQL and what are the different types of joins?
43. Mention a query to add email validation to your database
44. What are joins in SQL and what are the different types of joins?
45. How can you perform pattern matching in SQL?
46. Write a query to retrieve the last day of next month in Oracle.
47. Write a query to retrieve the last day of next month in Oracle.
48. Mention a query to calculate the even and odd records from a table
49. What do you understand by the view and mention the steps to create, update and drop a view?
50. Mention the differences between HAVING and WHERE clause?