**RDBMS(2022-2023)**

1. Differentiate between data and information
2. What is data?
3. Give the structure of DBMS with a diagram.
4. What are the objectives of DBMS?
5. What are the advantages of DBMS?
6. What are the components and interfaces of DBMS?
7. Explain the role of Database administrator.
8. What is data dictionary?
9. What is metadata?
10. What are the functional components of database system structure?
11. Write about database architecture.
12. Name some popular DBMS vendors and their products.
13. What is the purpose of ER Diagram?
14. What is an entity and give the classification of entity?
15. Write about reducing ER diagram to tables.
16. What is an ISA relationship?
17. Write about CODDs rule.
18. Write about the concept of keys(super,candidate,foreign keys)
19. Write about relational algebra operations(selection,projection,rename,union,intersection,division,join)
20. Write about types of join operation(natural,equi,theta,outer(left,right,full))
21. Write about relational calculus.
22. Write about QBE.
23. What are the data types in SQL?
24. Write all the DDL commands.
25. Write about aggregate functions in SQL.
26. Write about group by,order by and having clause.
27. Write about DML commands(insert,update,delete)
28. Write about table modification commands(alter)
29. Write about table truncation (delete,truncate,delete)
30. Differentiate between not null and unique constraint.
31. Differentiate between primary and unique constraint.
32. Write about imposition of constraints between in DBMS(unique,not null,primarykey,check)
33. Write about referential integrity constraint(foreign key)
34. What is the term “on delete cascade”?
35. Write the structure of PL/Sql block.
36. Write about control structure in PL/SQL.(conditions, iterative)
37. Write about cursors and their types in PL/SQL with syntax.
38. Write about procedures in PL/SQL with syntax and example.
39. Write about functions in PL/SQL with syntax and example.
40. Write about packages in PL/SQL with syntax and example.
41. Write about exception handling in PL/SQL with syntax and example.
42. Write about triggers in PL/SQL with syntax and example.
43. Write about database design tools.
44. Write about redundancy and data anomaly.
45. Define normalisation.
46. Write about 1NF,2 NF, 3 NF, 4 NF and Boycee codd normal forms.
47. What is partial dependency?
48. What is multivalued dependency?
49. What is transitive dependency?
50. Describe Transaction processing.
51. Write about database recovery.
52. Write about Data base security.