Model Questions

Semester-IV

Subject: Information Technology/ DBMS   **Paper: CC8**

Group 'A'

1. Discuss the three schema architecture of a database system.
2. What is serialisability? Explain conflict and view serializabilities.
3. What is Relational algebra? What is Cartesian product?
4. Discuss the advantages and disadvantages of DBMS.
5. What is multi-valued dependency? Explain
6. What is the difference between specialization and generalization?
7. What is mapping cardinality constraints?
8. Explain file processing system.
9. What do mean by Entity Relationship diagram.
10. Explain data models.

Group 'B'

11. Define BCNF. How does it differ from 3NF? Why is it considered a stronger form of 3NF?
12. Discuss the overall system architecture of a relational database management system with proper block diagram.
13. What is the need for concurrency control and Recovery in DBMS?
14. What is a transaction? What are the various characteristics that a transaction must possess? Explain the various transaction states.
15. What do you mean by data abstraction? Explain different levels of data abstraction
16. What is normalization? What are the different normal forms?
17. What are the main functions of a database administrator? Explain in detail.
18. What do mean by Database management system. Explain it
19. Explain Entity- Relationship model.
20. What do mean by Relational algebra.