XT 9251 – ADVANCED DATABASE

1. What is lock? What are the different types of locks available in commit protocol ?
2. Write short notes on Two phase protocol
3. How the distributed DBMS overcomes a central DBMS. Justify.
4. Compare the client-server and collaboration server architecture. Explain with suitable diagrams.
5. Define Multimedia database. What are the data file formats used in this?
6. How does the concept of an object oriented model differ from the concept of an entity in the ER model?
7. Explain the following things with suitable example
   a. ODL(Object Definition Language)
   b. OML(Object Manipulation Language)

                              (OR)

   OQL(Object Query Language)

8. What problem can occur in a continuous media system if data is delivered either too slow or too fast?
9. Give the difference between the following three approaches?

   a. RDBMS
   b. ORDBMS
   c. ORDMS
10. List out the main features of mobile computing over wireless networks that are distinct from traditional distributed systems.
11. Write a program to create a suitable database for Bank's customer details and also design the suitable front end and correct connectivity.
12. Give the difference between centralized and distributed databases.
13. Write the definition on
    a. Fragmentation
    b. Replication
14. State about Query Parallelism.
15. What are the different types of joins. Then how it is used in the distributed database?
16. How OODBMS is varied from ORDBMS?
17. What are the uses of special database?

18. What are the ACID properties?

19. What are the steps involved in Query Evaluation Engine?

20. What is OID in OODBMS?

21. What is XML schema?

22. Answer the following

    a. Explain the two phase and three phase commit protocol with suitable examples?

    b. Give the difference between distributed and normal query processing.

    c. When is it useful to have replication of data? Justify your answer with suitable example.

23. Answer the following

    a. Describe the benefits and drawbacks of pipelined parallelism.

    b. Explain details about inter and extra query parallelism with suitable examples.

24. Answer the following

    a. Give the comparison between RDBMS, ORDBMS and ODBMS.

    b. How object oriented concept used in database environment?

25. Answer the following

    a. Create an application for student details in VISA processing purpose. The VISA may be given through online. Use suitable XML schema.

    b. What is CSS? How it is used in online transactions. Explain with suitable example

26. Answer the following

    a. What are the issues in mobile database. How to overcome this?

    b. Design suitable database of GIS(Geographic Information System) and explain briefly.