AU–215

B.C.A. (Part—III) Semester—VI Examination

ADVANCED DATABASE MANAGEMENT SYSTEM

Paper—6ST5

Time : Three Hours]   [Maximum Marks : 60

Note :—(1) All questions are compulsory.

   (2) All questions carry equal marks.

   (3) Assume suitable data wherever necessary.

1. (a) Explain the concept of Normalization with its different types in detail.   6

   (b) Explain the need of database tunning.   6

OR

2. (a) Explain the concept of database file organization.   6

   (b) Explain the DBMS benchmarking in detail.   6

3. (a) Explain concurrency control transaction and its scheduling techniques.   6

   (b) What is log ? Explain its features.   6

OR

4. (a) What are the different specialized locking techniques ? Explain in detail.   6

   (b) Explain the concept of Crash Recovery.   6

5. (a) Explain parallel and distributed databases.   6

   (b) Explain the following :—

      (i) Replication

      (ii) Fragmentation.   6

OR

6. (a) Explain the concept of parallel query evaluation.   6

   (b) Explain the distributed concurrency control system with suitable example.   6

7. (a) What is inheritance ? Explain.   6

   (b) What is OODBMS ? State and explain the advantages and disadvantages.   6

OR

8. (a) Explain the database design for ORDBMS.   6

   (b) State and explain storage and access methods in ORDBMS.   6

9. (a) Explain metadata management in dataware house.   6

   (b) What is data mining ? Explain.   6

OR

10. (a) Explain DSS and OLTP of data warehousing.   6

   (b) What is data warehousing ? Explain its environment.   6