

AP-567

B.C.A. (Part-III) Semester-VI Examination
ADVANCED DATABASE MANAGEMENT SYSTEM
Paper—6ST5

Time—Three Hours]

[Maximum Marks—60

N.B. :— (1) All questions are compulsory.

(2) All questions carry equal marks.

1. (a) What is Normalization ? Explain 1NF and 2 NF
with example. 6

(b) Explain the need of Database Tuning. 6

OR

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

(b) Explain different database characteristics with example.
6

3. (a) Explain :

(i) Crash Recovery

(ii) Serializability. 6

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(Contd.)

(b) What is check pointing ? Explain. 6

OR

4. (a) Explain lock based concurrency control. 6

(b) Explain the concept control without locking. 6

5. (a) Explain :

(i) Replication

(ii) Fragmentation. 6

(b) Explain the need of Distributed recovery. 6

OR

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

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

7. (a) Explain the characteristics of OORDBMS. 6

(b) Explain the concepts of object database system. 6

OR

8. (a) How inheritance is used in OORDBMS ? Explain. 6

(b) Differentiate between RDBMS and ORDBMS. 6

9. (a) Explain different application areas of Data mining. 6

(b) Explain DSS and OLTP of Data warehousing. 6

OR

10. (a) What is data mining ? Explain. 6

(b) Explain metadata management in Data warehouse. 6