

AT-454

B.C.A. (Part—III) Semester—VI Examination
ADVANCED DATABASE MANAGEMENT SYSTEM
Paper—6 ST 5

Time : Three Hours]

[Maximum Marks : 60

1. (a) What do you understand by Normalization ? Explain in detail. 6
(b) Explain the following :
 - (i) Database design
 - (ii) Database tuning. 6

OR

2. (a) Explain the concept of File Organization in detail. 6
(b) What is Conceptual Schema ? Explain with example. 6
3. (a) What are different specialized locking techniques ? Explain in detail. 6
(b) What are logs ? Explain with an example. 6

OR

4. (a) Explain the following in terms of concurrency control :
 - (i) Transactions
 - (ii) Schedule. 6
(b) How recovery is executed from a system crash ? Explain in detail. 6
5. (a) Explain the process of parallel query evaluation. 6
(b) Explain distributed recovery in detail. 6

OR

6. (a) Explain the architecture of distributed database in detail. 6
(b) Explain the method of query in distributed database. 6

7. (a) Compare RDBMS with OODBMS. 6
(b) What are various storage methods in object database systems ? 6

OR

8. (a) Explain the concept of inheritance in object database system. 6
(b) What are various access methods in object database system ? Explain in detail. 6
9. (a) Explain the basic concept of data warehousing in detail. 6
(b) Explain various application areas in data mining. 6

OR

10. (a) Explain the need of DSS and OLTP in detail. 6
(b) Explain the environment of warehouse in detail. 6