

AS-1527

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.

1. (a) Explain normalization with its different types in detail. 6
- (b) Explain concept of database. Explain various issues in physical database design. 6

OR

2. (a) Explain database tuning in detail. 6
- (b) Explain DBMS benchmarking in detail. 6
3. (a) Explain check pointing in crash recovery. 6
- (b) Explain lock base concurrency control. 6

OR

4. (a) Explain :
 - (i) Serializability
 - (ii) Log management. 6
- (b) How recovery is possible from system crash ? 6
5. (a) Explain parallel and distributed databases. 6
- (b) Explain parallel query evaluation in detail. 6

OR

6. (a) Explain architecture of distributed database. 6
(b) Explain concurrency control and recovery in distributed database. 6
7. (a) Explain database design for ORDBMS. 6
(b) What is inheritance ? Explain in detail. 6

OR

8. (a) Compare RDBMS with OODBMS. 6
(b) State and explain identity in object database system in detail. 6
9. (a) Explain :
(i) Data mining
(ii) Data warehouse. 6
(b) Explain metadata management in data warehouse. 6

OR

10. (a) Explain different application areas of data mining. 6
(b) Explain OLAP and OLTP in data warehouse. 6