

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

Time—Three Hours]

[Maximum Marks—60

Note :- All questions are compulsory. All questions carry equal marks.

1. (a) What are databases ? Explain various issues in physical database design. 6
- (b) Explain the concept of queries tuning in detail. 6

OR

2. (a) Explain Index Selection Method in detail. 6
- (b) What do you understand by Benchmarking in database ? Explain in detail. 6
3. (a) Explain Serializability in detail. 6
- (b) Explain check pointing in crash recovery. 6

OR

4. (a) What do you understand by concurrency control ? Explain in detail. 6
- (b) Explain the advantages of log management. 6

5. (a) Compare parallel and distributed databases. 6
(b) Explain distributed transaction management in detail. 6

OR

6. (a) Explain the concept of parallelizing individual operations. 6
(b) Explain the process of updating distributed data. 6
7. (a) What are Identity in object database system ? Explain with example. 6
(b) What are various methods of query optimization ? Explain in detail. 6

OR

8. (a) Compare ORDBMS with RDBMS. 6
(b) Explain issues in database design for an ORDBMS. 6
9. (a) What is Metadate ? Explain its management. 6
(b) What do you understand by data mining ? Explain in detail. 6

OR

10. (a) Compare Data Warehousing and Data Mining in terms of different roles. 6
(b) Explain the advantages of following :
(i) DSS
(ii) OLTP
(iii) OLAP. 6