

Roll No

MCSE-203

M.E./M.Tech., II Semester

Examination, December 2016

Advance Concept in Data Bases

Time : Three Hours

Maximum Marks : 70

- Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Explain the basic relational algebra operations with the symbol used and an example for each.
b) What does the DBMS do when constraints are violated? What in referential integrity? What options does SQL give application programmers for dealing with violations of referential integrity?
2. a) Explain multivalued dependencies and also describe UNF with appropriate example.
b) What is query optimization? Discuss various steps of optimization.
3. a) Discuss general strategies of query processing.
b) What is deadlock? Explain deadlock handling in DDBMS.
4. a) Discuss web database? Differentiate web database Vs multimedia database.
b) Explain Recovery control in distributed database.

5. a) What do you mean Disaster-proof database? Explain mobile database.
b) Compare RDBMS, OODBMS and ORDBMS.
6. a) What do you mean by Inter-Query and Intra-Query parallelism?
b) How is recovery dealt with DDBMS?
7. a) Explain Association rules for data mining with the help two Algorithm.
b) Explain Data warehouse architecture in detail.
8. Write short note on any three :
 - a) Predictive data mining
 - b) Knowledge base system
 - c) Spatial database
 - d) OLAP
 - e) E-R design
