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Question Paper Code : 57238

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Third/Fifth Semester

Computer Science and Engineering

CS 6302 – DATABASE MANAGEMENT SYSTEMS

(Common to B.Tech. Information Technology B.E. Mechanical and Automation Engineering B.E. Computer and Communication Engineering)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What are the disadvantages of file processing system ?
2. Explain entity relationship model.
3. Name the categories of SQL commands.
4. Explain "Query Optimization" ?
5. What are the properties of transaction ?
6. Differentiate strict two phase locking protocol and rigorous two phase locking protocol.
7. What is mean by garbage collection ?
8. Define software and hardware RAID systems.
9. Explain data classification.
10. What are the advantages of data warehouse ?

PART – B (5 × 16 = 80 Marks)

11. (a) Briefly explain about Database system architecture. (16)

OR

(b) Briefly explain about Views of data. (16)

12. (a) (i) Explain about SQL Fundamentals. (8)

(ii) Explain about Data Definition Language. (8)

OR

(b) Briefly explain about Query processing. (16)

13. (a) Briefly explain about Two phase commit. (16)

OR

(b) Explain about Locking Protocols. (16)

14. (a) Briefly explain RAID and RAID levels. (16)

OR

(b) Briefly explain about B+ tree index file with example. (16)

15. (a) Explain about Distributed Databases and their characteristics, functions and advantages and disadvantages. (16)

OR

(b) Explain types of database security and database security issues. (16)