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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)**