

Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Question Paper Code : 57238**

27/5/16 RW

**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)