

Roll No..... -

MTCF-102

M.E./M.Tech., I Semester

Examination, November 2018

Database Security and Privacy

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain the three levels of abstraction in data modelling and their relationship.
b) Why is BCNF a more desirable normal form than lower forms? Give an example of a relational scheme that is in third normal form but not in BCNF? Also explain using an example why it is not practically feasible always.
2. a) Discuss the entity integrity and referential integrity constraints. Why is each considered important?
b) What is the goal of query optimization? Why is it optimization important.
3. a) How can we provide security in statistical database?
b) Discuss the process of saving database against crasher.
4. a) Give a brief note on security management.
b) Explain briefly
 - i) Business security
 - ii) Operational security

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5. a) What are the key requirements of electronic payment systems? Explain in detail.
- b) What are different methods that can be used for payment system in E-commerce?
6. a) Explain the e-money and e-credit account's security concerns like authenticity, privacy integrity and non-repudiation. <http://www.rgpvonline.com>
- b) Explain marketing strategies adopted in E-commerce.
7. a) Explain the concept of firewall with its components.
- b) Define mobile agents with security issues.
8. Write short notes on any two :
- i) Web server security
 - ii) SSL
 - iii) M-commerce
 - iv) E-Readiness
