

Roll No.

23562

**M. Tech. 2nd Semester (Cyber Forensics
and Information Security)
Examination – May, 2016**

DATABASE SECURITY

Paper : MTCF-202

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Section. Question No. 1 is *compulsory*.
All questions carry equal marks.

1. (a) List database security problems and discuss in brief. $5 \times 4 = 20$
- (b) Differentiate between database user authentication and database user authorization.

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SECTION – D

8. Explain how access rights are handled in the Orion Access Control Model. 20
9. Explain the model for protection of active databases. 20

- (c) What is the need of developing Intrusion Detection System?
- (d) What are the security issues for new generation databases?

SECTION – A

2. Explain in detail the Lattice Model for the Flow Control Mechanism. 20
3. What are different security models ? Explain any *one* in detail. 20

SECTION – B

4. Explain the trusted Computer System Evaluation Criteria. 20
5. What are Secure Operating System Design considerations ? Explain. 20

SECTION – C

6. What are various types of attacks on statistical databases ? Explain how these attacks can be handled in secure databases. 20
7. Explain RETISS system. 20