

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 × 4 = 20
- (b) Differentiate between database user authentication and database user authorization.

**SECTION – D**

- (c) What is the need of developing Intrusion Detection System? 20
- (d) What are the security issues for new generation databases? 20

**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

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