

Roll No.

23562

**M.Tech. 2nd Semester (Cyber
Forensics and Information
Security) Examination–May, 2014**

DATABASE SECURITY

Paper MTCF-202

Time : 3 hours

Max. 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 the examination.

Note : Attempt any **five** questions in total selecting **one** question from each Unit. Question No. 1 is **compulsory**.

1. (a) Describe database security problems in brief. 5
- (b) Write down security functionalities of Windows Operating System. 5

(c) Define different types of attacks on Database. 5

(d) What do you mean by Active Databases ? Describe. 5

UNIT - I

2. Describe Matells'a Model for Distributed databases in detail. 20

3. Explain Access Matrix Model and Take-Grant Model in brief. 20

UNIT - II

4. How to design security software ? Describe a methodology to design such software. 20

5. Describe in detail the various security mechanisms. 20

UNIT - III

6. Describe in detail the RETISS System. 20

7. What do you mean by evaluation criteria for Control Comparison ? Suggest some criteria for such evaluation. 20

UNIT - IV

8. What are the unique issues of security related to active databases ? Describe any security model for active databases. 20
9. Describe model for security of frame based systems. 20
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