

23562

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

May-2017

DATABASE SECURITY

Paper-MTCF-202

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions in total selecting one question from each section and Question no.1 which is compulsory. All questions carry equal marks.

1. (a) What is Database Security ? Discuss its scope.
- (b) Explain the concept of database user authentication.
- (c) What is Intrusion Detection System ? Explain in brief.
- (d) What are new generation databases? List security issues for new generation databases.

5×4=20

Section-A

2. Explain the following. Access Matrix Model and Take-Grant Model. 20
3. Explain the Lattice based flow control access model. 20

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Section-B

4. Write note on : 10×2=20
- (a) Database Security Design
 - (b) Memory Protection Mechanism
5. What is resource protection ? Explain how windows operating system resource protection mechanism works. 20

Section-C

6. What is attack ? Explain various types of attacks on statistical databases. 20
7. Explain IDES system. 20

Section-D

8. Explain the Orion Access Control Model. 20
9. Write note on a model for the Protection of Frame Based Systems. 20