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**M. Tech 2nd Semester (Cyber Forensics
and Information Security)
Examination – May, 2018**

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* from each Unit. Question No. 1 is *compulsory*.

1. Explain the following :

- (i) Take-Grant Model
- (ii) Secure DBMS Design
- (iii) Types of Attacks
- (iv) Protection of object oriented Database 20

UNIT – I

2. Define Database Security. Explain the different problems in Database Security controls. Also explain different security models. 20
3. Explain the following : 20
- (i) Jajodia and Sandhu's Model
 - (ii) Dion's Model

UNIT – II

4. Describe the following : 20
- (i) User Identification/Authentication
 - (ii) Resource Protection
5. Explain the following : 20
- (i) Secure Operating System Design
 - (ii) Security Packages

UNIT – III

6. Give a complete description about statistical Database protection and Intrusion Detection System. 20
7. Explain the following : 20
- (i) IDES System
 - (ii) ASES System

UNIT – IV

8. Describe in detail the models for the Protection of New Generation Database System ? 20
9. Describe the following : 20
- (i) A Model for the protection of frame Based systems.
 - (ii) The Orion Model. 20
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