

23562

M. Tech. 2nd Semester
(Cyber Forensic and Information Security)
Examination, May-2015
DATABASE SECURITY
Paper-MTCF-202

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions, selecting at least one question from each unit. Question No. 1 is compulsory.

1. (a) Describe principle of Take-Grant model in brief.
- (b) Write down security functionalities of Unix Operating System.
- (c) Define different types of Controls on Database.
- (d) What do you mean by object oriented database ? Describe. 4×5=20

Unit-I

2. Describe The Lattice Model for the Flow Control in detail. 20
3. Explain Access Matrix Model in detail. 20

Unit-II

4. Describe Bell and LaPadula's Model. 20
5. Describe some memory protection and Resource Protection techniques. 20

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Unit-III

6. Describe in detail the ASES System in detail. 20
7. What do you mean by intrusion detection ? Mention the techniques used to detect intrusion. Also explain distributed intrusion detection system. 20

Unit-IV

8. What are the unique issues of security related to object oriented databases ? Describe in detail SORION model. 20
9. How new generation databases are different from traditional databases ? Describe a model for security of new generation databases. 20

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