1. Define the term database. Discuss the need for database security. [15]

2. Explain clearly the Take-Grant Model, PN model and Fernandez's model for database security. [15]

3. Discuss clearly the Bell and Lapadula's security model and Biba's security model. [15]

4. List out various database security mechanisms and explain them clearly. [15]

5. Explain the methodological approach to security software design. [15]

6. Discuss clearly the IDES system, RETISS system and ASES system. [15]

7. Discuss model for the protection of object-oriented systems and object oriented databases. [15]

8. Explain the Orion model Jajodia and Kogan's model for protecting databases. [15]

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