



III B.Tech I Sem Regular End Examination, December 2022

Database Security
(Cyber Security)
Time: 3 Hours.**Max. Marks: 70**

Note: 1. Question paper consists: Part-A and Part-B.

2. In Part – A, answer all questions which carries 20 marks.

3. In Part – B, answer any one question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

PART- A**(10*2 Marks = 20 Marks)**

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|-------|---|----|-----|-----|
| 1. a) | What is meant by Information Security? | 2M | CO1 | BL1 |
| b) | What are the various security methods? | 2M | CO1 | BL1 |
| c) | Write about OS authentication. | 2M | CO2 | BL1 |
| d) | What are Linked servers? | 2M | CO2 | BL1 |
| e) | List best practices for securing a network environment. | 2M | CO3 | BL1 |
| f) | Define profile and create a profile statement. | 2M | CO3 | BL1 |
| g) | What are the types of users? | 2M | CO4 | BL1 |
| h) | What are the application security models? | 2M | CO4 | BL1 |
| i) | What is virtual private Database? | 2M | CO5 | BL1 |
| j) | How does VPD enforce security | 2M | CO5 | BL1 |

PART- B**(10*5 Marks = 50 Marks)**

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|---|----|--|----|-----|-----|
| 2 | a) | Explain information security Architecture. | 5M | CO1 | BL4 |
| | b) | Discuss about Vulnerabilities of OS. | 5M | CO1 | BL2 |

OR

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| 3 | | Describe the components of an OS Security Environment with an example. | 10M | CO1 | BL4 |
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| 4 | a) | Draw the diagrams of Database links with examples. | 5M | CO2 | BL1 |
| | b) | Explain about remote users. | 5M | CO2 | BL4 |

OR

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|---|--|--|-----|-----|-----|
| 5 | | Explain creating and removing a SQL server user. | 10M | CO2 | BL4 |
| 6 | | Illustrate the process of designing and implementing password polices. | 10M | CO3 | BL5 |

OR

7 How to grant and revoke the user privileges with an example. 10M C03 BL1

8 Explain Discretionary Access Control (DAC) and Mandatory Access Control (MAC). 10M C04 BL4

OR

9 Write short notes on Access Matrix security Model and Access Modes security Model with examples. 10M C04 BL1

10 Explain the overview of virtual private Databases (VPD) with at least two examples 10M C05 BL4

OR

11 How to implement row and column level security with SQL server. 10M C05 BL1

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CO - Course Outcome**BL - Blooms Taxonomy Levels**