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## B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

### 18CSE476T - DATABASE SECURITY

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

**Note:**

- i. **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40<sup>th</sup> minute.
- ii. **Part - B** and **Part - C** should be answered in answer booklet.

**Time: 3 Hours**

**Max. Marks: 100**

#### PART - A (20 × 1 = 20 Marks)

Answer all Questions

	Marks	BL	CO
1. A degree that all data is fully protected from tampering or unauthorized acts (A) Database Security (B) Database Process (C) Database Connectivity (D) Database System	1	1	1
2. Security gaps are points at which security is missing thus the system is (A) Virus (B) Threats (C) Vulnerable (D) Spoof	1	1	1
3. A Code that disrupts the OS is (A) Virus (B) Worm (C) Boot sector virus (D) Trojan Horse	1	1	1
4. A System needs for all the time only to be authorized and authenticated persons (A) Secured (B) Unavailable (C) Applicable (D) Available	1	1	1
5. SESSIONS_PER_USERS is the maximum number of open sessions as (A) Current (B) Concurrent (C) Maximum (D) Minimum	1	1	2
6. USER_ID in DBA_USERS view (A) Unique Identification Number (B) Identification number (C) Unique Number (D) Unique Identification system	1	1	2
7. A view that enables you to see everything created and stored in the database (A) Data Security (B) Data Dictionary (C) Data Maintenance (D) Data Process	1	1	2
8. External name for Authenticated user (A) Local (B) Internal (C) External (D) Global	1	1	2
9. How many Triggers are available for DML Statements (A) 13 (B) 12 (C) 11 (D) 10	1	1	3
10. A server event in SQL server is (A) Shutdown (B) Hibernate (C) Logoff (D) Reboot	1	1	3
11. A database tool, that provides the user interface for auditing events (A) Server (B) SQL (C) SQL User (D) SQL Server	1	1	3

12. To create a profile, bytes allowed to be allocated for a user using (A) INTERNAL_SGA (B) PUBLIC_SGA (C) PRIVATE_SGA (D) EXTERNAL_SGA	1	1	3
13. A program that executes automatically when the event occurs in database (A) TRIGGER (B) OBJECTIVES (C) AUDIT (D) PREVENTIVE AUDIT	1	1	4
14. Members can create, alter and drop databases using (A) dbprovider (B) dbdestination (C) dbcreator (D) dbaccess	1	1	4
15. A virtual private database allows (A) Graphical Row (B) Row or Column (C) Graphical Column (D) Row and Column	1	1	4
16. Generally, database is considered as Physical or (A) Address (B) Logical (C) Physical address (D) Application	1	1	4
17. Level 1 of Access in static mode is (A) Read (B) Write (C) Use (D) Update	1	1	5
18. A Command used to drop own objects (A) CASCADE (B) RESPONSE (C) CHALLENGE (D) CREATOR	1	1	5
19. Authenticated is not performed until the user is (A) Available (B) Authorized (C) Secured (D) Safety	1	1	5
20. Values across different records are swapped in order to perform the privacy- preservation (A) Data mapping (B) Data Entry (C) Data Migration (D) Data Swapping	1	1	5

**PART - B (5 × 4 = 20 Marks)**

Answer **any 5** Questions

	Marks	BL	CO
21. Express about the Mandatory Security levels in SQL.	4	2	1
22. Discuss about the Security environment and its classifications.	4	2	2
23. Generalize the policies for Designing and implementing passwords.	4	2	3
24. Classify the Countermeasures of Malware and countermeasures of Weak audit trail.	4	3	4
25. Exploit the policy levels to implement row and column with SQL server.	4	3	5
26. Perceive the privileges for Granting and revoking user.	4	2	3
27. Articulate the policies used for viewing VPD.	4	2	5

**PART - C (5 × 12 = 60 Marks)**

Answer **all** Questions

	Marks	BL	CO
28. (a) Explain in detail about the problems with data extraction. (OR) (b) Illustrate about the levels of data security in detail.	12	3	1
29. (a) Summarize the security issues in distributed databases with an example. (OR) (b) Scrutinize in detail about the database vulnerabilities with a neat diagram.	12	4	2

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|-----|---|----|---|---|
| 30. | (a) Interpret the best practices profiles in database security.                       | 12 | 4 | 3 |
|     | (OR)  |    |   |   |
|     | (b) Categorize the links for database and linked servers in detail.                   |    |   |   |
| 31. | (a) Investigate about the excessive privileges in data encryption.                    | 12 | 4 | 4 |
|     | (OR)  |    |   |   |
|     | (b) Integrate in detail about DB vulnerabilities and Misconfiguration.                |    |   |   |
| 32. | (a) Analyze DLL triggers with oracle and illustrate the same using suitable examples. | 12 | 4 | 5 |
|     | (OR)  |    |   |   |
|     | (b) Describe in detail about Virtual private databases with a neat sketch.            |    |   |   |

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