Reg. No	

## **B.Tech DEGREE EXAMINATION, NOVEMBER 2023**

Seventh Semester

## 18CSE455T - DATABASE SECURITY AND PRIVACY

(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 $(20 \times 1 = 20 \text{ M})$ Answer all Question		Mark	s BL	со
1.	is a set of processes and procedure that knowledge.	t transform data into information and	1 1	1	1
		) Information system ) Computer system	96		
2.	Authentication information is transmitted over using		a 1	1	1
		) RADIUS ) PKI			
3.	Which of the following method is efficient for changing information?	reading but not suited for frequently	y 1	1	1
		) Secure Remote Password (SRP) ) NT LAN Manager (NTLM)			
4.	is a collection of security polices and methods, security tools blended together to secure the integrity, accessibility and confide database environment.	implement all necessary measures to	5	1	1
		) Firewall			
	(C) Gateway (D)	) Database security			
5.	Who are the oracle default users?		1	1	2
		) SYSTEM and SCOTT			
		) SYS and SCOTT			
6.	(A) Password complexity (B)	as a limited time left before it expires.  ) Password storage  ) Password aging	. 1	1	2
7.	which user interact with the system using datab (A) Application Programmer (B)		1	,1	2
8.	temporary table space. (A) TEMPORARY TABLESPACE (B)	ement takes the temporary name of TEMPORARY NAMESPACE ) TEMPORARY SPACE	<b>f</b> 1	1	2
9		PROCEDURE ADD_POLICY_CONTEXT	1	1	3
	(C) DDOCEDINE DDOD DOLICY (D)	PROCEDURE ENABLE POLICY			

10.	Business layer level web application architecture?  (A) Application layer  (C) Business logic layer	contains a program that implements business rules in  (B) Web application  (D) Service oriented layer	1	1	3
11.	Identify the function, which lis (A) ALL_CONTEXT	sts all context for the current session. (B) SESSION_CONTEXT	1	1	3
	(C) VPD POLICY	(D) IN_SESSION_CONTEXT			
12.	The package is used to		1	1	3
	(A) DBMS_RLS (C) PL/SQL	(B) RLS_DBMS (D) Security_Package			
12	GRANT AND REVOKE com	· · ·	, -		4
15.	(A) DDL statements	(B) DCL statements	1	1	4
	(C) SQL statements audit trail	(D) Database events			
14		other method of auditing database activities.	1	1	.4
. 1.	(A) CREATE	(B) TRUNCATE	-	•	
	(C) DROP	(D) ALERT			
15.	DDL triggers can only fire after	er the statement has occurred	1	1	4
10.	(A) DML	(B) CLR	¥	•	•
	(C) DDL	(D) DML and DDL			
16.	Trigger is special type of	procedure.	1	1	4
	(A) Stored	(B) Function			
	(C) View	(D) Table			
17.	In which method noise is added	d to data?	1	1	5
	(A) The randomization method	(B) The k-anonymity model and l-diversity			
	(C) Distributed privacy preserv	vation (D) Downgrading Application Effectiveness			
18.	In which case the attacker kn and their corresponding perturb	ows some linearly independent collection of records, bed version?	1	1	5
	(A) Known Input Attack	(B) Known Input-Output Attack			
	(C) Known Output Attack	(D) Known Sample Attack			
19.	we are typically dealing with b	iven transaction is modified to a different value. Since, inary transactional data sets, the entry value is flipped.	1	1	5
	(A) Blocking	(B) Aborting			
	(C) Distortion	(D) Hiding			
20.	same set of attributes are in	ead out across multiple entities, each of which have the	1	1	5
	(A) vertically partitioned (C) diagonally partitioned	<ul><li>(B) horizontally partitioned</li><li>(D) randomly partitioned</li></ul>			
	PART -	$B (5 \times 4 = 20 \text{ Marks})$	Marks	BL	CO
		ver any 5 Questions			12
21	Briefly write about Information	n Security Architecture	4	2	1
22.	21. Briefly write about Information Security Architecture.		4	4	
	A STATE OF THE STA				2
23.		atrix model and Access Modes model.	4	2	3
24.	Why the server activity should	A Company of the Comp	4	4	4
25.	25. Write short notes on Horizontal Partitioning in data mining.		4	4	5
26.	6. How to remove and modify users in sql server?		4	2	4

27.	Define Database security and give various database security access points.	4	4	3
	PART - C (5 × 12 = 60 Marks) Answer all Questions	Mark	s BL	CO
	Answer an Questions			
28.	(a) Explain in detail about information system categories and write the uses of system application at various management levels.  (OR)	12	4	1
	(b) Categorize the database security vulnerabilities and threats. Explain them with an example.			
29.	(a) Determine the steps required for creating users in oracle 10g.  (OR)	12	4	2
	(b) Design and implement the various password policies and their limitations.			
30.	(a) Elaborate about security data model based on application functions with appropriate diagrams.	12	4	3
	(OR)			
	(b) Describe how the oracle helps in implementing a VPD using views.			
31.	(a) Write in detail about security auditing with SQL server.  (OR)	12	3	4
	(b) Discuss, how oracle database auditing activities are performed using DLL triggers.			
32.	(a) Illustrate the Randomization method.	12	4 .	5
	(OR)			
	(b) List the applications of privacy-preserving data mining. Explain them in detail.			

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