

SRM Institute of Science and Technology College of Engineering and Technology

OFFLINE SET B

DEPARTMENT OF ECE

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu

Academic Year: 2022-23 (ODD)

Test: CLAT-1

Course Code & Title: 18CSC303J/ Database Management Systems

Pear & Sem: IV & VII, Sec N

Date: 2/8/2022

Duration: 60 Min

Max. Marks: 25

Q. No	Questions	Marks	B L	CO	PO
1	Which of the following is not a type of database? a) Hierarchical b) Network c) Distributed d) Decentralized	1	1	1	1
2	Which of the following is a feature of the database? a) No-backup for the data stored b)User interface provided c)Lack of Authentication d) Store data in multiple locations	1	1	1	1
3	What does an RDBMS consist of? a) Collection of Records b) Collection of Keys c) Collection of Tables d) Collection of Fields	1	1	1	2
4	The DBMS acts as an interface between and of an enterprise-class system. a) Data and the DBMS b) Application and SQL c) Database application and the database d) The user and the software	1	2	1	1
5	The ability to query data, as well as insert, delete, and alter tuples, is offered by a)TCL(Transaction Control Language) b)DCL(Data Control Language) c)DDL(Data Definition Language) d) DML (Data Manipulation Language)	1	1	1	2
6	Illustrate about Data abstraction. Also explain about various types.	(4+6=10)	3	1	1
7	What is Data independence? Explain three level of data independence.	(4+6=10)	3	1	2
8	Illustrate about the SQL Command types. Explain each type with suitable example.	(4+6=10)	2	1	1



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Academic Year: 2022-23 (ODD)

Test: CLAT- 2
Course Code & Title: 18CSC303J/ Database Management Systems
Pear & Sem: IV & VII, Sec N

Date: 14/9/2022

Duration: 100 Min

Max. Marks: 50

	PART A 10 X 1 = 10 Marks				
Q.	Questions	Marks	В	СО	PO
No			L		
1	An entity or relationship set may be represented in a database as	1	1	2	1
	a				
	A. Table				
	B. Field				
	C. Database				
	D. Entity				
-	A compared table management the attribute	1	1	2	1
2	A separate table represents the attribute.	1	1	2	1
	A. Single-valued				
	B. Double-valued				
	C. Multivalued				
	D. None of the above				
3	The generalization process is similar to the bottom-up approach.	1	1	2	2
	A Ton Bottom				
	A. Top-Bottom B. Top-Up				
	C. Bottom-Up				
	D. Up-Bottom				
	1				
4	As a general rule, entities at higher levels can combine with	1	1	2	1
	entities at lower levels to form a level entity.				
	A. Lower				
	B. Higher C. Middle				
	D. Central				
	D. Celitiai				
5	How many types of keys are there?	1	1	2	2
	A. 1				
	B. 2				
	C. 3				

		ı			
	D. 4				
6	PL/SQL Procedure consists of –	1	1	3	2
	A. Header and Footer				
	B. Body and Footer				
	C. Header and Body				
	D. None of the above				
7	How much number of ways is there to pass the parameters in	1	1	3	2
	procedure?				
	A. 1				
	B. 2				
	C. 3				
	D. 4				
8	Which of the following pass parameters can be referenced by	1	1	3	2
	procedure?				
	A DI OUT				
	A. IN, OUT				
	B. OUT, INOUT				
	C. IN, INOUT				
	D. None of the above				
9	What is the difference between PL/SQL Function and PL/SQL	1	1	3	2
'	Procedure?	-	-		-
	1 locedure:				
	A. PL/SQL function may or may not return the value				
	whereas PL/SQL Procedure must have to return the				
	value.				
	B. PL/SQL Procedure may or may not return the value				
	whereas PL/SQL Function must have to return the value.				
	C. PL/SQL Function may or may not return the function				
	whereas PL/SQL Procedure must have to return the				
	function.				
	D. None of the above				
10	Oracle creates when SQL statements are processed.	1	1	3	2
	A. Content Areas				
	B. Context Areas				
	C. Context Ids				
	D. Content Ids				
	DADED (17/10 1037 1)				
	PART B (4 X 10 = 40 Marks)				
11	Answer any Two Questions from CO2	(4) (-10)	_	_	-
11	a)What is the need for ER Model?	(4+6=10)	3	2	1
	h) Discuss shout the Concept Design with the ED Med 19				
12	b) Discuss about the Concept Design with the ER Model? a) Distinguish strong entity set with weak entity set?	(5+5=10)	3	2	2
14	a) Distinguish strong entity set with weak entity set?	(3+3-10)	J	4	4

	b) Draw an ER diagram to Illustrate weak entity set?				
13	a) Define a nested query?b) Write a nested query to find the names of sailors who have reserved both red and green boat?c). Write a nested query to find the names of sailors who have reserved all boats?	(4+3 +3=10)	2	2	1
	Answer any TWO Questions from CO3				
14	a) Define trigger and explain its three parts?b) Differentiate row level and statement level triggers?	(5+5=10)	2	3	1
15	a) Illustrate outer joins with example?	10	2	3	1
16	a) What are different database schema languages and interfaces? Explain in detail of each	(6+4=10)	2	3	1



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Academic Year: 2022-23 (ODD)

Test: CLAT- 3

Course Code & Title: 18CSC303J/ Database Management Systems

Pear & Sem: IV & VII, Sec N

Date: 02/11/2022

Duration: 100 Min

Max. Marks

	PART A 10 X 1 = 10 Marks				
Q. No	Questions	Marks	B L	CO	PO
1	Relational Algebra is a query language that takes two relations as input and produces another relation as an output of the query. a) Relational b) Structural c) Procedural d) Fundamental	1	1	4	1
2	Which of the following is used to denote the selection operation in relational algebra? a) Pi (Greek) b) Sigma (Greek) c) Lambda (Greek) d) Omega (Greek)	1	1	4	1
3	Which is a join condition contains an equality operator: a) Equijoins b) Cartesian c) Natural d) Left	1	1	4	2
4	The assignment operator is denoted by a) ->	1	1	4	1

	L\ d	T			
	b) <-				
	c) =				
<u> </u>	d) ==	1	-		2
5	A query in the tuple relational calculus is expressed as:	1	1	4	2
	a) {t P() t}				
	b) {P(t) t }				
	c) {t P(t)}				
	d) All of the mentioned				
6	Collections of operations that form a single logical unit of	1	1	5	2
	work are called				
	a) Views				
	b) Networks				
	c) Units				
	d) Transactions				
7	Which of the following is a property of transactions?	1	1	5	2
	a) Atomicity				
	b) Durability				
	c) Isolation				
	d) All of the mentioned				
8	If a schedule S can be transformed into a schedule S' by a	1	1	5	2
	series of swaps of non-conflicting instructions, then S and S'				
	are				
	a) Non conflict equivalent				
	b) Equal				
	c) Conflict equivalent				
	d) Isolation equivalent				
	a) rootation oquivaront				
9	Aof the transactions can be obtained by	1	1	5	2
	finding a linear order consistent with the partial order of the				
	precedence graph.				
	a) Serializability order				
	b) Direction graph				
	c) Precedence graph				
	d) Scheduling scheme				
10	Which of the following is the most expensive method?	1	1	5	2
	a) Timestamping				
	b) Plain locking				
	c) Predicate locking				
	d) Snapshot isolation				
	DADED (43/40 403/4 1)				
	PART B (4 X 10 = 40 Marks)				
11	Answer any Two Questions from CO4	(4) (-10)	-	_	1
11	a) What are the different relational operators that can be applied to a	(4+6=10)	3	4	1
	database?				
	b) Describe in detail about Relational algebra queries and Tuple				
10	relational calculus	10	-		2
12	Illustrate with suitable examples about Pitfalls in Relational database	10	3	4	2
13	a)Define: Normalization and list out it types	(4+6=10)	2	4	1
	b) December of the Art Proposition 1 December 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	b) Describe about Functional Dependency with suitable example				
	Answer any TWO Questions from CO5				
14	a)Describe in detail about the concurrency Control With Locking	10	2	5	1
14	a)Describe in detail about the concurrency Control with Locking	10	4	J	1

	Methods				
15	a) List out different types of locks.	(4+6=10)	2	5	1
	b)Explain about Deadlocks.				
16	a) What is Serializability in DBMS?	(2+8=10)	2	5	1
	b) View Equivalent Schedule				