

Register								
Number								

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Batch 1 Set - A

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamil Nadu College of Engineering and Technology

School of Computing

Academic Year: 2022-23 (Even)

Test	: CLA-T2	Date	: 12-04-2023			
Course Code & Title	: 18CSC303J – DATABASE MANAGEMENT SYSTEMS	Duration	: 8am to 9:40 am			
Year & Sem: III Year / VI Sen	Year & Sem : III Year / VI Sem					
Instruction: MCQs to be collecte						

Course Articulation Matrix:

S.No.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	CO2	Н	M	L	-	-	-	-	-	-	-	-	-
2	CO3	Н	M	L	-	-	-	-	-	-	-	-	-
3	CO4	Н	M	L	-	-	-	-	-	-	-	-	-

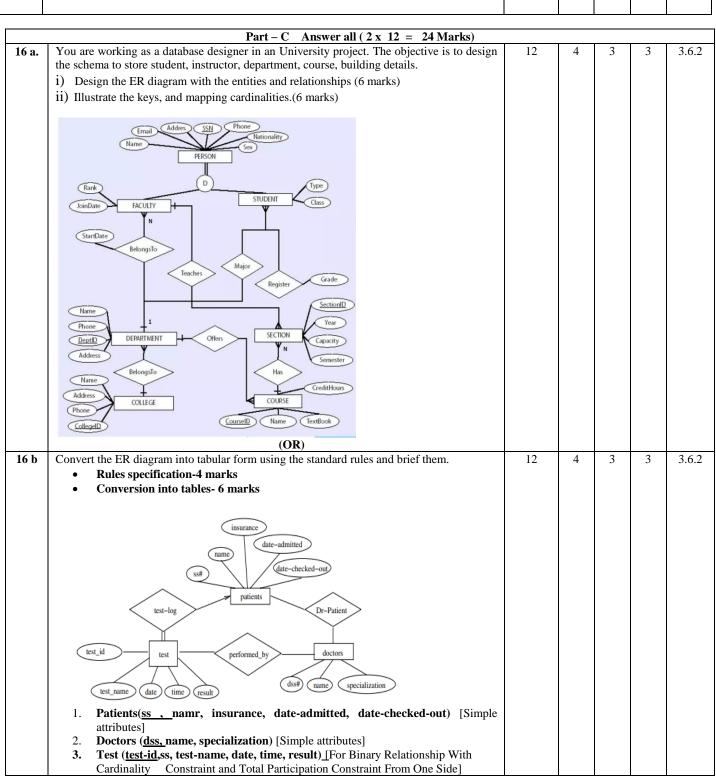
Instru	Part – A (10 x 1 = 10 Marks) ctions: 1) Answer ALL questions.					
Q. No	Ouestion	Marks	BL	CO	PO	PI Code
1	key is not generated from the table data. A. super key B. surrogate key C. null key D. candidate key Answer: B	1	1	2	1	1.6.1
2	is the standard SQL order of execution A. from, where, group by, select, order by B. from, where, select, order by, group by C. group by, order by. from, where, select D. select, from, where, order by, group by Answer: A	1	2	2	1	1.6.1
3	If E1, E2,, En are entity sets, then a relationship set R is aof {(e1,e2,,en) e1 ∈ E1,e2 ∈ E2,,en ∈ En} where (e1,e2,,en) is a relationship. A. superset B. union C. subset D. intersection Answer: C	1	1	2	1	1.6.1
4	is a condition to manage the consistency as well integrity of the values stored in an attribute. A. Assertion B. Dependency C. Constraint D. Relationship Answer: C	1	2	2	1	1.6.1
5	A in a table represents a relationship among a set of values A. row B. column C. key D. entity Answer: A	1	1	2	1	1.6.1
6	returns the smallest integer value that is greater than or equal to a number. A.ceil() B. abs() C.pos() D. floor() Answer: A	1	2	4	2	2.7.2
7	Transaction Control Language (TCL) Commands are A.Commit,Rollback,Savepoint B.grant,revoke C.Commit,revoke D.revoke,rollback,savepoint Answer: A	1	1	4	1	1.6.1
8	Statement is used to remove a SAVEPOINT that you have created. A.Remove Savepoint B.Delete Savepoint	1	1	4	2	2.6.1

	C.Release Savepoint D.Drop Savepoint					
	Answer: C					
9	are automatically created by Oracle whenever an SQL statement is					
	executed					
	A.Stored Procedure B.VIEWS C.Implicit Cursors D.Explicit Cursors	1	2	4	2	2.6.1
	Answer: C					
10	runs the query and display the required result.					
	A.Execution Engine B. Parser C.Optimizer D.Compiler	1	1	4	2	2.6.1
		1	1	4	2	2.0.1
	Answer: A					

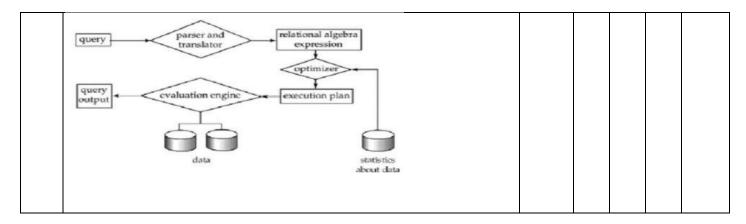
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	Part – B (4 x 4 = 16 Marks) Instructions: Answer ANY FO	UR quest	ions			
Q. No	Question	Marks	BL	CO	PO	PI
11	Compare strong and weak entity with an example.	4	3	2	2	Code 2.7.2
	Strong Entity:	-			_	
	A strong entity is not dependent on any other entity in the schema. A strong entity will always have a primary key. Strong entities are					
	represented by a single rectangle. The relationship of two strong entities					
	is represented by a single diamond.					
	Weak Entity: A weak entity is dependent on a strong entity to ensure its existence.					
	Unlike a strong entity, a weak entity does not have any primary key. It					
	instead has a partial discriminator key. A <u>weak entity</u> is represented by a double rectangle.					
	double rectaligie.					
	C_id C_name L-date Customer Borrows Loan					
	Strong Entity					
12	Define entity set and relationship set	4	3	2	1	1.6.1
	An entity refers to any object having-					
	Either a physical existence such as a particular person, office, house or car.					
	Conceptual existence such as a school, a university, a company or a job.					
13	 A relationship set is a set of relationships of same type. Create a view from the table Employee to display the names of employee 	4	3	2	2	2.6.1
13	who are all coming from the city 'Chennai'.	4	3	2	2	2.0.1
	Create view view_name as select name from employee where city = 'Chennai'.					
14	You are appointed as a Project head and in need of granting database privileges to a user. Write the SQL queries to	4	3	4	2	2.6.1
	I. Grant the user system privilege to log into the "project" database					
	to give all permissions. (2marks)					
	GRANT ALL					
	ON PROJECT					
	TO OTHER_USER;					
	II. Revoke all privilges from the user.(2 marks)					
	REVOKE ALL PRIVILEGES FROM OTHER_USER;					
15	Given below are the two tables, Table 1 (id,name) and Table 2 (id,city).	4	3	4	2	2.6.1
	Table 1 Table 2 ID NAME ID CITY					
	Write the query and result of cross join and natural join operation. 1 kevin 1 Delhi 3 Ram 2 Bombay 5 Ramla					
	cross join:					
	select *from t1 cross join t2;					
	501000 110111 t1 01055 Juli t2,	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1

ID 	NAME	ID CITY		
3 5 1 3	kevin Ram Ramla kevin Ram Ramla	1 Delhi 1 Delhi 1 Delhi 2 Bombay 2 Bombay 2 Bombay		
Natural join:				
select *from t1 natural jo				
ID NAME CITY	Y			
1 kevin Delh	i			



4. Dr-patient (ss, dss) [For Binary Relationship With Cardinality Ratio m:n] 5. Performed_by (test id, dss) [For Binary Relationship With Cardinality Ratio m:n]					
Employee : (Emp id, Empname,Dept, Salary) Department: (D id,Dept_name,location) Each query 3 marks Write a Query to display the employee name which includes the characters 'dh'. Select name from employee where name like '%dh%'. II. Write a Query to Order the salary field in descending order for the employees who are all working at location 'Mumbai. Select * from employees where location = 'Mumbai' order by salary desc. III. Write a Query to Display the employees whose salary is more than the minimum salary of the 'IT' department. select * from employees where salary>(select min(salary) from employees group by dept having(dept='IT')); IV. Display employee details who are getting the Second highest Salary in the Employee table? SELECT name, MAX(salary) AS salary FROM employee WHERE salary FROM employee MINUS SELECT MAX(salary) FROM employee); Or SELECT name, MAX(salary) AS salary FROM employee WHERE salary ⟨⇒ (SELECT MAX(salary) FROM employee); (OR)	12	4	4	3	3.6.2
I. Create a stored procedure in PL/SQL to display the old salary and new salary when the salary gets updated in the Employee Table. (6 marks) create or replace trigger salarychanges before insert or update on employee for each row when (new.eno>0) declare sal_diff number; begin sal_diff:=:new.salary - :old.salary; dbms_output.put_line('Old Salary = ' :old.salary); dbms_output.put_line('New Salary = ' :new.salary); dbms_output.put_line('Salary Difference = ' sal_diff); end; / II. Illustrate and explain the various steps in SQL query processing by Query optimizer . (6 marks) Basic Steps in Query Processing 1. Parsing and translation 2. Optimization 3. Evaluation	12	4	4	3	3.6.2



Course Outcome (CO) and Bloom's level (BL) Coverage in Questions

