University of Mumbai Examination Summer 2022

Time: 2hour 30 minutes Max. Marks: 80

1. Which of the following is true in DBMS Option A: Mechanism to copy data Option B: Mechanism to copy and managed data. Option C: Mechanism to store and manage data Option D: Mechanism to paste data. 2. Weak Entity set Option A: Do not have sufficient attributes Option B: Do not have sufficient attributes Option C: Do not have sufficient attributes to form primary key Option D: Do not have attributes at all 3. In E-R notations relationship reprinted as Option A: eclipse Option B: diamond Option C: triangle Option D: circle 4. Which of the following is correct syntax to display all employee from employee tab using SQL Option A: Select & from employee Option B: Select * from department Option D: Select nothing 5. Which SQL command use to sort the data in ascending or descending order Option A: Group by Option C: having Option D: Not having 6. Which of the following provides the ability to query information from the databas insert tuples into, delete tuples from, and modify tuples in the database?	
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	e and
Option A: DDL	
Option B: DCL	
Option C: DML	
Option D: Entity	
7. The Projection operation in relational algebra is written as	
Option A: \(\Sigma\)	
Option B: P	
Option C: II	
Option D: Σ	
8. Deletion of an student from table also deletes that student from another table. This	s kind
of delete is called	
Option A: cascaded	

Option B:	virtual
Option C:	related
Option D:	Simple
9.	Which one of the following is not a part of ACID Properties of database transactions
Option A:	Atomicity
Option B:	Consistency
Option C:	Isolation
Option D:	Deadlock
	868888888888888888888888888888888888888
10.	A Transaction complete its execution is said to be
Option A:	Saved
Option B:	Loaded
Option C:	rolled
Option D:	committed

Q2	Solve any Two Questions out of Three 10 marks each
A	Explain the DDL and DML with suitable Examples
В	Explain all E-R Notations with examples.
С	Explain relational algebra operations in details.

Q3	Solve any Two Questions out of Three 10 marks each
A	Draw E-R diagram for Hospital Management System
В	Explain deadlock with respect to database transactions. Also discuss deadlock handling.
C	Explain database architecture in detail.
	Explain database arciniecture in detail.

Q4	
A	Solve any Two 5 marks each
1	Compare traditional file system with database management system.
	Explain Log based recovery in transaction management
111. S	Explain the role of primary key and foreign key in DBMS.
B	Solve any One 10 marks each
666	Explain any five SQL aggregate functions with examples
	Explain ACID Properties in Details.