S.E. (IT) (S em-III) (CBCGS) (R-19) 92776 (C Scheme)

## Database Management System

## **University of Mumbai Examination Summer 2022**

Time: 2hour 30 minutes Max. Marks: 80

	Choose the correct option for following questions. All the Questions are
Q1.	compulsory and carry equal marks
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 any rrelation.
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 table
	using SQL
Option A:	Select & from employee
Option B:	Select * from employee
Option C:	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 B:	Order by
Option C:	having Company of the
Option D:	Not having
6.	Which of the following provides the ability to query information from the database and
	insert tuples into, delete tuples from, and modify tuples in the database?
Option A:	DDL de la companya de
Option B:	DCL
Option C:	DML
Option D:	Entity
7.	The Projection operation in relational algebra is written as
Option A:	Σ
Option B:	P
Option C:	Π
Option D:	Σ
8.	Deletion of an student from table also deletes that student from another table. This kind
	of delete is called
Option A:	cascaded

Option B:	virtual
Option C:	related Santa Control of the Control
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
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.
С	Explain database architecture in detail.

Q4	
$\mathbf{A}^{(i)}$	Solve any Two 5 marks each
i	Compare traditional file system with database management system.
ü.	Explain Log based recovery in transaction management
ii.	Explain the role of primary key and foreign key in DBMS.
В	Solve any One 10 marks each
$i \sim i$	Explain any five SQL aggregate functions with examples
- 1 <b>ii.</b>	Explain ACID Properties in Details.