# Program: Computer Engineering Curriculum Scheme: Rev2016 Examination: TE Semester V Course Code: CSC502 and Course Name: Database Management System

* Required

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The paper consists of 20 questions carrying 2 marks each. Duration 40 minutes.
ALL QUESTIONS ARE COMPULSORY.

If a schedule S can be transformed into a schedule S' by a series of swaps    2 points
of non-conflicting instructions, then S and S' are *

○ Strict

○ Equivalent

◉ Conflict Equivalent

○ Non-Conflict Equivalent

Which of the following concurrency control protocols ensure both conflict  2 points
serialzability and freedom from deadlock? *

○  I only

◉  II only

○  Both I and II

○  Neither I and II

If a transaction has obtained a _____ lock, it can read but cannot  2 points
write on the item *

◉  Shared Mode

○  Exclusive Mode

○  Read only mode

○  Write only mode

The Join operation in which it keeps every tuple in first or left relation R if  2 points
no matching tuple is found in S, then the attributes of S in join result filled
with NULL values *

○  Outer Join

◉  Left Outer join

○  Right Outer Join

○  Full Join

The physical storage structure or device could be changed without affecting the conceptual schema, this is known as _____ *    2 points

( ● ) Physical data Independence

( ○ ) Logical data Independence

( ○ ) External data independance

( ○ ) View data independance

The number of entities to which another entity can be associated via a relationship set is expressed as: *    2 points

( ○ ) Entity

( ○ ) Attribute

( ○ ) Schema

( ● ) Cardinality

Consider the following relation Movies(theater,address,capacity) Which of the options will be needed at the end of the SQL query : SELECT P1.address FROM movies P1 such that it always finds the addresses of theaters with maximum capacity? *    2 points

( ● ) WHERE P1.capacity > = All (select P2. capacity from Movies P2)

( ○ ) WHERE P1.capacity > = Any (select P2. capacity from Movies P2)

( ○ ) WHERE P1.capacity > All (select max (P2. capacity) from Movies P2)

( ○ ) WHERE P1.capacity >Any (select max (P2. capacity) from Movies P2)

In SQL which command is used to add new column in existing table ? *    2 points

○ Create

○ Insert

◉ Alter

○ Record

2NF is *    2 points

◉ every non-key attribute is fully functionally dependent on the entire primary key

○ 1NF and every non-key attribute is fully functionally dependent on the entire primary key

○ No transitive dependencies

○ only atomic attributes and primary key is defined

In SQL , the View command is declared as: *    2 points

○ define view V as <query expression>;

◉ Create V as <query expression>

○ Create or replace view V as <query expression>;

○ define view V like <query expression>;

Deadlocks are possible only when one of the transactions wants to obtain    2 points
a(n) ____ lock on a data item *

○ Binary

○ Exclusive

◉ Shared

○ Complete

The _____ operation, allows us to find set of all common tuples that    2 points
are belonging to both Relation R and Relation S. *

○ Union

◉ Set Intersection

○ Set difference

○ Join

The operation which produces a relation R(X) that includes all tuples t[x] in    2 points
R1(Z) that appears in R1 in combination with every tuple from R2(Y.) *

◉ Cartesian Product

○ Set difference

○ Set division

○ Join

If several concurrent transactions are executed over the same data set    2 points
and the second transaction updates the database before the first
transaction is finished, the ____ property is violated and the database is no
longer consistent. *

○ Automicity

○ Consistency

○ Durability

◉ Isolation

The attribute Retiremnet_date is calculated from DATE_OF_JOINING. The    2 points
attribute Retirement_date is *

○ Single Valued

○ Multivalued

◉ Derived

○ Composite

The type of operation which extends the Projection operation by allowing    2 points
functions of attributes to be included in the projection list. *

○ Join

○ Union

○ Projection

◉ Generalized Projection

The output of SQL statement SELECT SUBSTR('ABFJRTSKIL',6) FROM Schema; *          2 points

◉ TSKIL

◯ RTSKIL

◯ SKIL

◯ KIL

When a non key attribute depends on another non key attribute, it is called          2 points
*

◯ Functional Dependency

◉ Transitive dependency

◯ Partial dependency

◯ Automicity

If you want to maintain and store information about your car inurance company, a car would be considered a(n) _____ *          2 points

◯ Relation

◉ Entity

◯ Instance

◯ Attribute

A data dictionary is a repository that manages _____ *

2 points

○ Memory

◉ Metadata

○ Log

○ Schema

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