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SEAT No. _____

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SARDAR PATEL UNIVERSITY

T.Y. B.Sc. (Information Technology) EXAMINATION, V SEM

Date : 22nd Oct 2018, Monday

Time : 10:00am To 01:00pm

Session : Morning

Sub: Relational Database Management System - I

Course No : US05CINT01

Total marks : 70

Q - 1 Multiple Choice Question

[10]

- i) Entity is represented by _____
a) Rectangle b) Circle c) Double lined Rectangle d) Oval
- ii) Relationship between entities of the same set are called _____
a) Bi Direction relationship b) Binary Relationship
c) Self Relationship d) Ternary Relationship
- iii) _____ SQL * PLUS command used to execute last executed command.
a) Forwardslash(/) b) Backslash(\) c) ED d) Get
- iv) Which of the following SQL operations demands the use of wild cards comparisons _____ ?
a) IN b) Between c) Exists d) Like
- v) Which SQL statement is used to Add a new data in a database? _____
a) Add new b) Insert new c) Insert into d) Add record
- vi) A _____ value can be inserted into the columns of any data type.
a) Null b) Unique c) Not Null d) Index
- vii) For character data types the _____ sign matches any string.
a) _ b) & c) % d) \$
- viii) The _____ function returns an integer value corresponding to the UserID of the user currently logged in.
a) ROWID b) USER c) UID d) Rownum
- ix) _____ clause imposes a condition of the group by clause.
a) Group by b) Sub query c) Having d) Where
- x) A sub query is also termed as _____ query.
a) View b) index c) Join d) Nested

Q - 2 Short Answer attempt any ten (Each carry 2 marks)

[20]

- i) Define : DBMS , RDBMS
- ii) Draw ER- Diagram for E-shopping system.
- iii) What is many to many relationship? Give one example.
- iv) List any two SQL * PLUS commands with example.
- v) Explain concept of DUAL table.
- vi) Explain order by clause.
- vii) What is column level constraint and Table level constraints.
- viii) Explain use of BETWEEN operators in concern with Range searching.
- ix) How UNIQUE and composite unique key can apply at table level?
- x) What is sub query? Why it is used for ?
- xi) List the types of indexes
- xii) How can be grant given on an object?

Q - 3 a) List out Codd rules and explain any six.

[06]

b) What is E-R diagram? Explain its notations

[04]

OR

Q - 3 a) Define Normalization. Explain 1NF, 2NF and by taking suitable example.

[06]

(1)

(P.T.O.)

- b) Explain types of Relationship. [04]
- Q-4 a) Explain advantages and disadvantages of SQL. [06]
b) Discuss pattern matching and range searching predicates in detail. [04]
- OR**
- Q-4 a) Explain DDL and DML statements in detail. [06]
b) Explain logical operators with example. [04]
- Q-5 Explain Primary and Foreign key constraint with appropriate example. [10]
- OR**
- Q-5 List all scalar functions available in SQL and explain any three main functions with example. [10]
- Q-6 a) What is transaction processing ? Explain all TCL statements. [06]
b) Explain Group by and Having Clause. [04]
- OR**
- Q-6 a) What is index? Explain creation of Simple and Composite index. [06]
b) Write syntax of grant & revoke explain any two object privileges. [04]

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(2)