

SARDAR PATEL UNIVERSITY
MCA (SEMESTER - 1)
PS01CMCA03 (Database Management Systems – I)
Friday April 20th 2018

Time: 11.00 am – 2.00 pm

Marks: 70

Q-1 Give answers of following Multiple choice questions.

[8]

- (1) A person having passport is _____ relationship.
A One-to-one
B One-to-many
C Many-to-many
D None of these
- (2) Date of Joining of the employee is an example of _____ attribute
A Stored Attribute
B Derived Attribute
C Multivalve Attribute
D Composite Attribute
- (3) Which of the following is a multivalve attribute?
A Hobby
B Gender
C Age
D None of these
- (4) Attribute that is used to derive other attribute _____
A Stored Attribute
B Derived Attribute
C Composite Attribute
D None of these
- (5) _____ is not a DML statement.
A Insert
B Delete
C Update
D Create
- (6) _____ table use to display all tables name.
A User_constratins
B User_source
C Dual
D Tab
- (7) _____ is use to hide some of the fields of a table to end user.
A View
B Index
C Sequence
D None of these
- (8) Joining a table to itself is called _____.
A Equi join
B Self join
C Inner join
D Cross join

Q-2 Do as directed. (ATTEMPT ANY SEVEN)

[14]

- (1) Differentiate between Centralized and Distributed database.
- (2) What is the importance of Check constraint?
- (3) What do you mean by data redundancy?



- (4) What do you mean by physical data independence?
- (5) Difference between Composite & Simple attributes.
- (6) Give an example of Mmany to many relationship.
- (7) List DML Statements.
- (8) Give an example of ABS and SQRT functions.
- (9) Difference between primary key and unique key.

- Q-3 A Explain Advantages of DBMS. [6]
 B List types of data model, Explain any two in detail. [6]

OR

- B Explain various types of users in database and their roles. [6]

- Q-4 A Describe the notations used in ER diagram. [6]
 B Explain Dr. Edgar F. Codd's Rules for DBMS in brief. [6]

OR

- B **Draw an ER diagram & show cardinality for following information.** [6]

A college contains many departments. Each department can offer any number of courses. Many instructors can work in a department. An instructor can work only in one department. For each department there is a Head. An instructor can be head of only one department. Each instructor can take any number of courses. A course can be taken by only one instructor. A student can enroll for any number of courses Each course can have any number of students.

- Q-5 A Explain various data types in detail. [6]
 B Explain INSERT and SELECT commands. [6]

OR

- B Define the following terms. [6]
 Foreign Key , NotNull, Composite key, Default constraint, View

- Q-6 A Discuss following functions with an example [6]
 COUNT , LEAST, INITCAP, TO_CHAR, SUM , POWER

- B List types of joins. Explain any two join types with an example. [6]

OR

- B Discuss the concept of GropBy, Commit and Rollback with an example. [6]
