

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA Winter 2017 – 18 Examination

Semester: 1
Subject Code: 05201104
Subject Name: Database Management System

Date: 01/01/2018
Time: 02:00 pm to 04:30 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the following:**A. Write short answers.****[05]**

1. What is DBMS?
2. List any 4 examples of DBMS.
3. What is the use of NOW() function?
4. Define ER model.
5. Define Weak Entity.

B. Answer the following:**[10]**

1. Null and zero both are same. True or false?
2. A primary key is a candidate key. True or false?
3. “rename” command is used to rename a column. True or false?
4. Relational Algebra is procedural language.
5. Foreign key represents relationship between tables.
6. SQL stands for _____
7. DML stands for _____
8. Which is not a mapping cardinalities?
(a) Many to One (b) Many to Many (c) Any to Any (d) One to Many
9. Which is not an example of database.
(a) MS Access (b) SQL (c) Oracle (d) MySql
10. Which command is used to delete table from database?
(a) Delete Table (b) Delete Database (c) Drop Table (d) Remove Table

Q.2 Answer the followings**[15]**

1. Explain ACID properties in short. (03)
2. What is data model? Explain any one data model with diagram. (03)
3. Explain purpose of database system. (03)
4. Explain “integrity” problem. (02)
5. What is normalization? Give example. (02)
6. Explain “where” clause in SQL query. (02)

Q.3 Answer the following. (Any three)**[15]**

1. Draw an ER Diagram for Online BookStore.
2. Explain 3 tier Architecture of Database.
3. What is attributes? Explain various types of attributes.
4. What is Data Abstraction? Explain Physical level, Logical level and View level.

Q.4 Answer the following.**A. Explain Single valued and Multivalued Attribute with example.****[05]****B. Draw E-R Diagram for Library Management System.****[10]****OR****B. Draw E-R Diagram for Lab Management System.****[10]**