(iii) Drop

(iv) Selec

7. (a) How is no zation useful for a good database (? Explain first, second and third al forms with suitable example.

(b) Explain i valued functional dependenc l join dependency with the help of ple.

-IV

8. (a) Define a give an example of transactio efly discuss the ACID properties nsaction.

(b) Explain t ncept of serial, non-serial and izable schedules. State the rules c valence of schedules.

9. (a) Define loc at are two modes of locking? n with the help of example.

(b) Explain t oncept of two-phase locking wi help of example. How is it relate erializability ? Describe the role o phase locking in the process c dlock detection and avoidance.

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Roll No. .....

67074

M.C.A. 2nd Sem.
(with new notes - M.M. 80 w.e.f. May, 2013)
Examination–May, 2016

Database Management Systems (New)

Paper-MCA-204

Time : 3 hours ***Max. Marks : 80***

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt five questions in all. Question No. **1** is **compulsory** and attempt **four** more questions by selecting **one** question from each unit. All questions carry equal marks.

1. Answer the following questions :

(a) Define the term database.

(b) What do you mean by data redundancy ?

(c) What are various states of the database ?

(d) What do mean by domain integrity ?

(e) Explain th cept of null values in SQL.

(f) What is the ose of view in SQL ?

(g) Define inse anomaly ?

(h) What is tim ıp ordering ?

-I

2. (a) Explain th m data independence and data traction. How three schema ar ture helps to ensure data indepe ce.

(b) What doe fining, manipulating, sharing an tecting of a database mean? Ex with the help of example.

3. (a) What do y ean by data model ? Explain hie cal and network data models with merits and demerits.

(b) Describe th and responsibilities of DBA in t ıtabase management system.

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Unit-II

4. (a) Discuss AC characteristics of a relation that make them different from ordinary tables and files.

(b) Define key, candidate key, alternate key and foreign key. What is the difference between primary key constraint and unique constraint ?

5. (a) What are the similarities and differences between relational algebra and relational calculus ? Explain with the help of example.

(b) What are the components of tuple relational calculus? Discuss expression and formula in tuple relational calculus.

Unit-III

6. (a) What is SQL? What are the various data types supported by standard SQL?

(b) Explain the following command with the help of example :

(i) Create

(ii) Alter