Roll No

MCADD-305

M.C.A. (Integrated), III Semester

Examination, November 2019

Database Management System

Time: Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- 1. a) What are the advantages and disadvantages of DBMS?
 - b) Explain the overall architecture of Data Base Management System.
- 2. a) What are Data models? Explain relational model in detail and its advantages.
 - b) Define the terms:
 - i) Data Independence
 - ii) Schema
- 3. a) Explain E-R Model in detail by taking example.
 - b) What is the need of generalization and specialization? Explain.
- 4. Define the keys given below by taking suitable examples.
 - i) Primary key
- ii) Foreign key

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- iii) Candidate key
- iv) Super key

- 5. a) Explain Normalization. Discuss 1NF and 2NF.
 - b) Explain:
 - i) Functional dependency
 - ii) Multivalued dependency
 - iii) Join dependency
- 6. a) Explain Integrity Rules.
 - b) Discuss the basic concepts of transaction and write ACID properties.
- 7. a) Explain various types of join.
 - b) Write the syntax of SQL DDL. Create table statement. How can you declare primary key?
- 8. Write short notes on any three:
 - i) Distributed database
 - ii) RAID annual a chalque! Calabaga and Cara to be
 - iii) Relational Algebra
 - iv) Non loss decomposition
 - v) Reduction of ER to tables.
