

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 15

MBA (2016 to 2017) (Sem.-3)

**RELATIONAL DATABASE MANAGEMENT SYSTEM**

Subject Code : MBA-982

M.Code : 70760

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** contains **SIX** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
2. **SECTION-B** consists of **FOUR** Subsections : Units-I, II, III & IV. Each Subsection contains **TWO** questions each carrying **EIGHT** marks each and student has to attempt any **ONE** question from each Subsection.
3. **SECTION-C** is **COMPULSORY** carrying **EIGHT** marks.

**SECTION-A**

- Q1) Define DBMS. Discuss the advantages of DBMS over traditional file system.
- Q2) What is the difference between logical data independence and physical data independence? Which one is harder to achieve and why?
- Q3) What is a functional dependency? List the conditions for a set of functional dependencies to be minimal.
- Q4) Explain Insert, Delete, and Update statements in SQL with example.
- Q5) Explain the ACID properties of a database transaction.
- Q6) Define the following :
- a) Value set
  - b) Complex Attribute
  - c) Data model
  - d) Schema
  - e) Metadata

**SECTION-B****UNIT-I**

- Q7) Explain 1NF, 2NF and 3NF with example.
- Q8) What is a functional dependency and who specifies the functional dependencies that hold among the attributes of a relation schema?

**UNIT-II**

- Q9) Explain Relation Algebra Operation with examples.
- Q10) What is a data model? Compare and contrast hierarchical, network and relational data models.

**UNIT-III**

- Q11) Discuss five components of DBMS environment and discuss how they relate to each other.
- Q12) List certain advantages and disadvantages of DBMS.

**UNIT-IV**

- Q13) What is meant by integrity constraint? Explain the importance of referential integrity constraint how referential integrity constraint is implemented in SQL.
- Q14) Explain the Three phases of ARIES Recovery model.

**SECTION-C**

Q15)

Book_Title	Auth_Name	Book Type	List Price	Affiliation	Publication
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FDS {Book\_title → Book\_type, Publication

Auth\_name → Affiliation

Book\_type → List Price}

Find the key and Normalize.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**