

Roll No.

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)

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FDS {Book_title \rightarrow Book_type, Publication

Auth_name \rightarrow Affiliation

Book_type \rightarrow 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.