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M. B. A. (Third Semester) Examination, Nov.-Dec. 2020

(New Scheme)

(Specialization : System Management)

(Management Branch)

RDBMS and SQL CONCEPTS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 32

Note : Solve any two from each unit. All question carry equal marks.

Unit-I

1. (a) What is RDBMS? Explain the advantages of DBMS. 2+6

(b) Explain the following terms : 4×2=8

(i) Instance

(ii) Schemas

(iii) Physical data independence

(iv) Logical data independence

(c) Explain any **two** models : 2×4=8

(i) Relational model

(ii) Network model

(iii) Hierarchical model

Unit-II

2. (a) Explain different types of database users. 8

(b) Draw the system architecture of DBMS and also explain the different components of the architecture. 8

(c) Short notes : 2×4=8

(i) Data Dictionary

(ii) Database Languages

Unit-III

3. (a) Explain any **four** keys : 4×2=8

(i) Primary key

(ii) Candidate key

(iii) Foreign key

(iv) Alternate key

(v) Super key

(b) What is Normalization? Explain 3NF with help of example. 2+6

(c) Draw ER diagram : (any **one**)

(i) University

(ii) Hospital

(iii) Clean India

Unit-IV

4. (a) Explain ACID properties in DBMS.

(b) Explain the following DML command with help of example : 4×2=8

(i) Select

(ii) Insert

(iii) Update

(iv) Delete

(c) Short notes : 2×4=8

(i) DCL

(ii) Recovery techniques

Unit-V

5. Short notes : (any **two**) 2×8=16

(i) Multimedia Database

(ii) Object Oriented Database

(iii) Data warehousing and mining