

(Please write your Exam Roll No.)

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END TERM EXAMINATION

SECOND SEMESTER [BBA/BBA(TTM)/BBA(B&I)]- MAY-JUNE 2009

Paper Code: BBA/BBA(TTM)/BBA(B&I)

Subject: Database Management System

Paper ID: 17108/ 50108/ 18108

(Batch: 2005-2008)

Time : 3 Hours

Maximum Marks :75

Note: Q.1 is compulsory. Attempt any 1 question from each unit.

- Q1. a. Explain Database end users. 3
- b. What is entity? Explain strong and weak entity. 3
- c. Define Insert, Update and Delete anomalies. 3
- d. Define aggregation and generalization. 3
- e. What do you mean by data independence? Explain physical and logical data independence 3

Unit - I

- Q2. a. List the advantage of Database Management System over Traditional File Based System . 8
- b. What is data abstraction? Explain all three level of abstraction. 7

OR

- Q3. a. Explain Different data models with their relative advantage. 8
- b. Who is Database Administrator (DBA)? Explain the role and responsibilities of DBA. 7

Unit - II

- Q4. a. Explain 1st, 2nd and 3rd Normal forms with example. Draw an E-R diagram for college database, also find out entities, their attributes and relationship among them, whose points are given below 10
 - i. One student can opt one course but one course can opt by many students.
 - ii. One course can be taught by many faculties and one faculty can taught many courses.
 - iii. In a department there can be any number of faculty members but each faculty member belongs to one department only.
 - iv. Many students can enrolled in one department but a student can not enrolled in more then one department.
 - v. A student can have more then one local guardian but one guardian is assumed to be relate to one student only
- b. What is an attribute? Explain types of attribute used in E-R model with example. 5

OR

- Q5. a. What are Basic Set Operations? Explain with example 8

- b. Define candidate key, primary key and alternate key.
- c. Define Domain constraint, Primary key constraint, and Referential Integrity constraints.

Unit - III

- Q6.
- a. Explain 1st, 2nd and 3rd Normal forms with example.
 - b. Define Functional Dependency.
 - c. What do you mean by Update, Insert and Delete anomalies? Discuss in detail

OR

- Q7.
- a. Consider the relation Library (member_id, member_name, member_address, book_code, book_name, issue_date, return_date), this relation stores information about issue and return of books in a library to its member. A member can be issued many different books but one copy of same book.
 - i. What anomalies can occur in the above relation
 - ii. What are the functional dependencies in the above relation
 - iii. Normalize the above relation up to 3rd normal form
 - b. Define tuple and attribute

Unit - IV

- Q8.
- a. Consider the following table
Employee(eid, name, sal, deptt, job)
Write SQL for each of following:
 - i. Create Employee table.
 - ii. Add a attribute address in above table.
 - iii. Find the name of employee having maximum sal.
 - iv. Find the name of employee whose name begins with 's'.
 - b. Write the syntax of Insert and Delete command.
 - c. What are aggregate functions? Explain with example.

OR

- Q9
- a. Write short note on data type used in MS-Access
 - b. Write steps to create report in MS-Access.