

Paper Code: MBA-IT-01

Roll No.

--	--	--	--	--	--	--	--	--	--

MBA
THIRD SEMESTER EXAMINATION 2016-17
DATABASE MANAGEMENT SYSTEM

[Time: 3 hrs]

[Max. Marks: 100]

Note: Attempt *ALL* questions. Assume suitable data, if required. All question carry equal marks.

1. Attempt any **four** of the following: - (5x4=20)
- Define **Database**, explain with examples.
 - Illustrate with examples, the **Access Control/User Management** feature in Database.
 - Define **Schema**, illustrate with example.
 - What is a **Primary Key Attribute**, illustrate with examples.
 - What is **Truncate** command, illustrate with appropriate SQL query example.
 - Define **Attributes** and **Relations** with reference to Databases, with example.
2. Attempt any **four** of the following: - (5x4=20)
- What are **Triggers** and when are they used.
 - Write an **Update Query** for a table with table name 'Employee' with attributes 'Emp. No.' (Primary Key Auto-Increment), 'Name', 'Age', 'Designation', 'Contact No.' and 'Salary', use hypothetical but relevant data values.
 - Differentiate between **Drop** and **Delete** functions in a DBMS, illustrate with examples.
 - Illustrate with diagram **Components of Database Management Systems**.
 - What is **Unique Attribute**; explain with examples.
 - Define **Entity-Relationship Model**, illustrate with suitable diagrams and examples.
3. Attempt any **two** of the following: - (10x2=20)
- What is **BCNF**; what is the basic difference between 3NF and BCNF, explain with suitable example.
 - Write ten benefits of **Normalization**.
 - Write a short note on **Knowledge Extraction** through **Data Mining**.
4. Attempt any **two** of the following: - (10x2=20)
- Differentiate between **Network Data Model** and **Relational Data Model**.
 - List ten features of **DBMS**.
 - Write an SQL Query to create table with table name 'Student' under the database 'School' with attributes 'Enroll No.', 'Name', 'Age', 'Address', 'Contact No.' and two other relevant attributes of your choice. The query must specify the Primary Key Attribute, Attribute's: data type, length or size, null value specification and unique value specification.
5. Attempt any **two** of the following: - (10x2=20)
- Define **Data Mining** and **Data Warehousing**; explain using adequate examples.
 - Write ten advantages of using **DBMS** over **Conventional File System**.
 - Write a short note on **ACID** properties with reference to DBMS.