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## **MIT(CS)-402**

### **Introduction to DBMS**

M.Sc. Cyber Security (MSCCS-18/21)

4th Semester Examination, 2021 (Winter)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. What is data Model? Explain the types of Data Model.

2. What do you mean Database Language? What are the different types of data base language? Explain with an example.
3. What is Normalization? Explain 1NF, 2NF and 3NF with an example.
4. What is a Distributed database system? Discuss the advantages and disadvantages of distributed database systems.
5. Explain the three-level architecture of database system. What are its objectives?

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Differentiate between database system and file system.
2. What is Functional Dependency? Explain with an example.
3. Explain the role of a Database Administrator.
4. Explain the different types of keys with an example.

5. Explain the following terms with the help of an example.
- (a) Tuple.
  - (b) Attribute.
  - (c) Cardinality.
  - (d) Degree.
  - (e) Domain.
6. What is SQL? What are the Characteristics of SQL?
7. What are the SQL logical operators? Explain with an example.
8. What is database security? Describe the various type of database recovery process.
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