B.Sc. (IT)   (Sem.–4)
DATABASE MANAGEMENT SYSTEM
Subject Code : BSIT-402
M.Code : 74084
Date of Examination : 13-07-22

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1.   **Answer briefly :**

   a)   What do you understand by Entity?

   b)   What do you understand by Entity set? Explain

   c)   What are the structures of projection? Explain

   d)   What is a schema?

   e)   What is a subschema?

   f)   Give example using SQL for the retrieval using exist.

   g)   What is client server computing?

   h)   What is data integrity?

   i)   Give an example using SQL for the retrieval using union.

   j)   What are the journal file files?

SECTION-B

2. Discuss each of the following terms:

   a) data

   b) field

   c) record

   d) file

3. Discuss the difference between a composite key and a composite attribute with appropriate example.

4. What are the differences between file and data base.

5. What are the various objectives of a data base system? Explain the architecture for a relational data Model.

6. Explain the following type of keys with example

   a) Primary Key

   b) Secondary Key

   c) Candidate key

   d) Super key.

7. A department store consists of many item sections. A section has an in-charge. The store has three kinds of employees: accounts and billing; administrators; section maintainers. A request for purchase of items for the store is initiated by accounts and billing department which has the inventory details. Purchases are made by administration with proper quality checks from specified vendors. The section maintainers update the inventory placed at shelf's. Draw the E-R diagram for the store.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.