1. Write True or False for each of the statements given below. State the correct information for each of the “False” statements. Change key information accordingly. [4]
2. Database state includes descriptions of the database structure, data types, and the constraints on the database.
3. Database Designers are responsible to define the structure, the constraints, and functions or transactions against the database.
4. Physical data models provide concepts that are close to the way many users perceive data
5. The majority of today's Database Management systems are multi-user systems.
6. Within the DBMS which functions guarantee that each transaction between multiple users is correctly executed or aborted? [1]

a) Indexing b) Stored procedures c) Concurrency control d) Triggers

1. Suppose you have been assigned to develop and maintain a hospital management system using a database. To design the database, you did the following tasks in the given sequence. Identify whether these tasks are Data Definition Language (DDL) or Data Manipulation Language (DML). [3]
2. Create tables for patients and doctors.
3. After creating it you realized you need another field to save the patient’s phone number. So you add another column to the patient table.
4. Now you add information about all doctors in the corresponding table.
5. Suppose you are designing USIS 2.0. While designing it, you are keeping in mind that data can change frequently as a huge number of students will access USIS during pre-advising time. Besides, hundreds of faculties will have access to view/update course related information at a single moment.

What kind of data management approach will you use for designing the USIS. Explain briefly. [2]