

N.B. : (1) Question No.1 is **Compulsory**.

(2) Attempt any 3 questions out of rest.

(3) Figure to the right indicate full marks.

(4) All questions carry equal marks.

1. Hospital wants to design database for Hospital Management system.
 - a) Design tables (Doctor, Patient, Rooms, Records and Time) with assuming suitable attributes and normalize the database. **5**
 - b) Define primary key, foreign key with its importance in database design. List Primary and foreign key in each table of above tables. **5**
 - c) Draw Star schema and Snowflake schema for above design. **5**
 - d) Explain difference between star schema and snowflake schema **5**

2.
 - a) Explain Enterprise Resource Planning system with its functions, benefits and limitations. **10**
 - b) Define Customer relationship Management. Explain in detail Operational And Analytical CRM. **10**

3.
 - a) Define Business Intelligence. Explain Business Intelligence applications for Data Analysis. **10**
 - b) Explain B2B, B2C, C2C AND B2E electronic commerce. **10**

4.
 - a) Explain Several ways in which IT impacts employees at work. Also explain how IT might change manager's job. **10**
 - b) What is Social Commerce? Briefly describe the benefits and risks of social commerce to business. **10**

5.
 - a) Explain Cloud Computing with various types of Clouds. **10**
 - b) Explain Importance of Information System to Society. **10**

6. Write short notes on any two **20**
 - a) Transaction Processing System
 - b) Data ware houses and Data Marts
 - c) Big Data

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