

Q. P. Code : 855301

(3 Hours)

[ Total Marks : 80

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. College wants to design database for examination system.
    - a) Design tables 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 with purpose of normalization. 5
  2.
    - a) Explain Several ways in which IT impacts employees at work. Also explain how IT might change manager's job. 10
    - b) Explain E-Commerce with its various types. 10
  3.
    - a) Explain Characteristics of data warehouse. Differentiate between data warehouse and data marts. 10
    - b) Explain Customer relationship Management with its various types. 10
  4.
    - a) Define Big Data. Explain various characteristics and issues in Big Data. 10
    - b) Explain various Business intelligence Applications for presenting Results. 10
  5.
    - a) Explain traditional system development life cycle. 10
    - b) Explain various threats to information system. 10
  6. Write short notes on any two 20
    - a) Enterprise Resource planning
    - b) Pervasive Computing
    - c) Cloud computing model
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