## Paper / Subject Code: 51423 / Database Management System

Marks: 80 Time: 3 hours **N.B.:** 1. Question No.1 is compulsory. 2. Answer any three out of remaining questions. 3. Assume suitable data if necessary. 4. Figures to the right indicate full marks. Q1. Attempt All questions 20M (a) Explain generalization and Specialization with example. (b) Discuss primary key and foreign key with example. (c)Write a short note on conflict serializability (d) Explain DCL commands in detail. Q2. (a)Draw and explain Database System architecture 10M (b) Explain different type of attributes with example in Entity Relational Model 10M Q3 (a) Draw EER diagram for railway reservation management System 10M (b) Draw and explain notations of ER/EER diagram 10M Q4. (a) Explain the DDL and DML Commands with suitable example. 10M (b) Discuss procedure, functions and cursors with example. Q5 (a) Define normalization. Explain 1NF in detail with example 10M (b) Explain ACID properties in details with example. 20M Q6. write short note on (a) Constraints in SQL (b) Need of normalization in Database Design (c) Group by clause (d) JDBC Connection

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