SE - 207

Seat No.	

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T.E. (CSE) (Semester - VI) (Revised) Examination, November - 2018
DATABASE ENGINEERING
Sub. Code : 66860

Day and Date : Wednesday, 14 - 11 - 2018 **Total Marks : 50**

Time : 02.30 p.m. to 04.30 p.m.

Instructions : 1) All questions are compulsory.
2) Figures to right indicate full marks.

Q1) Attempt any three questions. **[3 × 6 = 18]**

a) What is a database? Explain any four advantages of database management system.

b) What is Normalization? Explain 1NF and 2NF with an example.

c) List and explain the various database users.

d) Explain aggregate functions in SQL with an example for each.

Q2) Solve any one question. **[1 × 7 = 7]**

a) Construct an ER diagram for car insurance company. Explain step by step process.

b) Explain DDL commands with proper syntax.

Q3) Attempt any two questions. **[2 × 5 = 10]**

a) What is a lock? Explain lock-compatibility matrix.

b) State and explain various classes of failures in a database system.

c) What is serializability? Explain view serializability in detail.

Q4) Write short notes on (any three): **[3 × 5 = 15]**

a) Static Hashing

b) Concurrency control

c) Two phase locking protocol

d) Concurrency Control with optimistic methods.

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