R09

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Let R= {A, B, C, D and E}. FD's= {AB→C, A→D, D→E, AC→B}. List all candidate key, prime attribute and non-prime attribute.
   (b) Discuss attribute semantics as an informal measure of goodness for a relation schema.

2 (a) Explain about the remote backup system.
   (b) Explain about concept of the buffer management in details.

3 (a) How the concurrency can be controlled using optimistic method Explain?
   (b) Explain about database recovery management.

4 (a) List and explain steps to develop an ER diagram for an university.
   (b) What is an overlapping subtype? Give an example.

5   What is a relationship? What are the different types of relationships that are used in relational database? Explain with examples.

6   What is RAID? Discuss.

7 (a) Explain object oriented model and network model in degrees of data abstraction.
   (b) What are the functionalities of data base administrator?

8 (a) What is an index? What are the operations that are performed on an index?
   (b) Write about the conversion functions in advanced SQL.

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