

Code No: V0523

R07**SET - 1**

II B. Tech II Semester, Supplementary Examinations, Dec – 2012
DATA BASE MANAGEMENT SYSTEMS
(Com. to CSE, IT)

Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. What is a data base system? Explain about various applications of it in detail.
2. What is a data? Explain about various data models in detail.
3. Explain in detail how database design is done?
4. a) What is a table? Differentiate between tables and views in detail.  
b) Explain about destroying and altering tables and views in detail.
5. a) What is a basic SQL query? Differentiate between basic and nested queries.  
b) What is a NULL value? How would you disallow NULL values?
6. a) Explain about comparison operators in detail.  
b) What is decomposition? Explain the problems caused by decomposition.
7. What is recovery? Explain about various types of recovery in detail.
8. Write short notes on the following.
  - a) Cluster indexes.
  - b) Hash –based indexing.
  - c) Tree based indexing.

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**R07****SET - 2**

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Answer any **FIVE** Questions  
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1. What is DBMS? Differentiate between data base systems and file systems in detail.
2. a) Explain about various data base languages in detail.
b) Differentiate between DDL and DML in detail.
3. a) What is an attribute? Differentiate between attribute and entity .
b) Explain about additional features of ER model in detail.
4. Explain about logical data base design in detail.
5. a) What is a select operation? Differentiate between select and project operations.
b) Explain about division operation with an example.
6. a) Explain about various aggregative operators in detail.
b) What is a trigger? Explain the significance of it.
7. a) What is atomicity? Explain about the implementation of it in detail.
b) Explain about lock based protocols in detail.
8. Write short notes on the following.
 - a) Performance tuning
 - b) ISAM
 - c) Primary index.

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R07**SET - 3**

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Time: 3 hours

Max. Marks: 80

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) What is data? Explain about various views of it in detail.  
b) Explain about ER model in detail.
  
2. Explain about the data base system structure in detail.
  
3. a) What is an ER diagram? Draw an ER diagram for a library management system.  
b) Explain about various types of relationship in detail.
  
4. What is a query? Explain about querying relational data in detail.
  
5. What is a join? Explain about various types of joins with clear examples.
  
6. a) What is a schema? Explain the reasons for schema refinement .  
b) Explain about fourth normal form in detail.
  
7. Explain about file organization and indexing in detail.
  
8. Write short notes on the following.
  - a) Log – based recovery
  - b) Advanced recovery systems
  - c) Granularity.

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**R07****SET - 4**

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All Questions carry **Equal** Marks

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1. a) What is data abstraction? Explain the significance of it in detail.
b) Differentiate between abstract and detailed data.
2. Explain about the history of data base systems in detail.
3. What is a large enterprise? Explain about conceptual data design for large enterprises in detail.
4. a) What is an integrity constraint? Explain the significance of it.
b) How would you enforce integrity constraints?
5. What is a relational calculus? Explain about the tuple and domain relational calculus in detail.
6. a) What is redundancy? Explain the problems caused by redundancy in detail.
b) Explain about BCNF in detail.
7. a) What is a concurrent transaction? Explain about recovery with concurrent transactions.
b) Explain about remote back-up systems in detail.
8. Write short notes on the following.
 - a) Functional dependency.
 - b) Third normal form
 - c) Storage manager.