

Code No: 37139

SET-1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
R05 IV B.Tech. I Semester Supplementary Exams, May/June – 2009
DATA BASE MANAGEMENT SYSTEMS
(Common to ECE, EIE, E.CON.E, ETM, & ECC)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions.
All Questions carries equal marks.

1. Explain briefly about Various Data Models with examples. [16]
2. Write about Various Relational Algebraic operations. [16]
3. Discuss about the following concepts in SQL with examples.
a. Aggregative operators.
b. Logical connectivity's . [16]
4. What is the need for Normalization? Explain 1NF and 2NF. [16]
5. Explain about Transaction Management. [16]
6. Discuss about the following concepts.
a. Serializability.
b. Recoverability. [16]
7. Write briefly about Primary and secondary Indexes. [16]
8. Explain the concepts of RAID Technology. [16]

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SET-2

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DATA BASE MANAGEMENT SYSTEMS
(Common to ECE, EIE, E.CON.E, ETM, & ECC)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions.
All Questions carries equal marks.

1. Explain briefly about various Database Languages. [16]
2. Discuss about Relational Model with an Example. [16]
3. Discuss about the following concepts in SQL with examples.
a. Nested queries.
b. Comparison operators. [8+8]
4. Explain the concepts of 3NF and BCNF with examples. [16]
5. Explain about ACID properties of a Transaction. [16]
6. Discuss about the following concepts.
a. Deadlocks.
b. Crash recovery. [8+8]
7. Write briefly about Cluster and Primary Indexes. [16]
8. Explain B+ Trees with examples. [16]

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SET-3

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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions.
All Questions carries equal marks.

1. Explain briefly about the following.
 - a. Database Users.
 - b. Transactin Management.[8+8]
2. Explain briefly about Relational calculus. [16]
3. Discuss about the following concepts in SQL with examples.
 - a. Aggregative operators.
 - b. Logical connectivity's .[8+8]
4. Write about Multi valued Dependency with suitable example. [16]
5. Explain about Lock Based Concurrency control. [16]
6. What is a Deadlock and how they are handled in DBMS? [16]
7. Write briefly about Cluster and Primary Indexes. [16]
8. Explain Briefly about Dynamic Hashing with an example. [16]

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SET-4

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DATA BASE MANAGEMENT SYSTEMS
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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions.
All Questions carries equal marks.

1. Explain about ER-Model and Additional features of ER-Model with examples. [16]
2. Explain about the following:
a. Views and Tables
b. Enforcing Integrity constraints. [8+8]
3. Discuss about the following concepts in SQL with examples.
a. Aggregative operators.
b. Null values and Comparison using Null values. [8+8]
4. What is schema refinement and explain 1NF, 2NF and 3NF. [16]
5. Explain briefly about ACID properties of a Transaction. [16]
6. Explain about Concurrency concepts of DBMS. [16]
7. Write briefly about Primary and secondary Indexes. [16]
8. Explain about Space management and Buffer management. [16]

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