Code No: NR320505   **NR**   **Set No. 2**

III B.Tech II Semester Examinations,December 2010
DATABASE MANAGEMENT SYSTEMS
Common to Electronics And Computer Engineering, Computer Science And
Engineering, Computer Science And Systems Engineering
Time: 3 hours   Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
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1. (a) With an example explain Serial and non-Serial Serializability schedule.

    (b) Write a note on concept of tansaction processing   [8+8]

2. Write about the following operations with suitable examples.

    (a) Select operation

    (b) Project operation

    (c) Rename operation

    (d) Natural join operation.   [3+3+4+6]

3. Construct a B-tree for the following set of key values, under the assumption that the member of search key values that fits in a node is 3.
   a,c,m,r,q,d,f,l,x,z,n,y   [16]

4. Discuss in detail about estimating the cost of an evaluation plan for a query block.   [16]

5. (a) How is the Recovery Manager is responsible for transaction atomicity and durability? Explain.

    (b) Explain Stealing Frames and Forcing pages?

    (c) What are difference between update log record and CLRS?   [7+5+4]

6. (a) Construct an E-R diagram for university registrar's office. The office maintains data about each class, including the instructor, the enrollment and the time and place of the class meetings. For each student class pair, a grade is recorded. Determine the entities and relationships that exist between the entities. Also construct the tabular representation of the entities and relationships.

    (b) What is an entity type? What is an entityset? Explain the difference between the entity, entity type and entityset?   [10+6]

7. (a) What are the steps followed while creating a table in SQL.

    (b) What are the various salient features of the SQL.

    (c) Describe the views.   [5+5+6]

8. State and explain any six heuristic rules used in optimizing relational queries. [16]

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Code No: NR320505 | **NR** | **Set No. 4**

III B.Tech II Semester Examinations,December 2010
DATABASE MANAGEMENT SYSTEMS
Common to Electronics And Computer Engineering, Computer Science And Engineering, Computer Science And Systems Engineering

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. (a) What are the steps followed while creating a table in SQL.

   (b) What are the various salient features of the SQL.

   (c) Describe the views.   [5+5+6]

2. State and explain any six heuristic rules used in optimizing relational queries. [16]

3. (a) With an example explain Serial and non-Serial Serializability schedule.

   (b) Write a note on concept of tansaction processing   [8+8]

4. Discuss in detail about estimating the cost of an evaluation plan for a query block.
                                                                    [16]

5. (a) How is the Recovery Manager is responsible for transaction atomicity and durability? Explain.

   (b) Explain Stealing Frames and Forcing pages?

   (c) What are difference between update log record and CLRS?   [7+5+4]

6. Write about the following operations with suitable examples.

   (a) Select operation

   (b) Project operation

   (c) Rename operation

   (d) Natural join operation.   [3+3+4+6]

7. Construct a B-tree for the following set of key values, under the assumption that the member of search key values that fits in a node is 3.
   a,c,m,r,q,d,f,l,x,z,n,y   [16]

8. (a) Construct an E-R diagram for university registrar's office. The office maintains data about each class, including the instructor, the enrollment and the time and place of the class meetings. For each student class pair, a grade is recorded. Determine the entities and relationships that exist between the entities. Also construct the tabular representation of the entities and relationships.

   (b) What is an entity type? What is an entityset? Explain the difference between the entity, entity type and entityset?   [10+6]

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Code No: NR320505 | **NR** | **Set No. 1**

III B.Tech II Semester Examinations,December 2010
DATABASE MANAGEMENT SYSTEMS
Common to Electronics And Computer Engineering, Computer Science And Engineering, Computer Science And Systems Engineering

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. (a) With an example explain Serial and non-Serial Serializability schedule.
   (b) Write a note on concept of tansaction processing   [8+8]

2. Construct a B-tree for the following set of key values, under the assumption that the member of search key values that fits in a node is 3.
   a,c,m,r,q,d,f,l,x,z,n,y   [16]

3. (a) How is the Recovery Manager is responsible for transaction atomicity and durability? Explain.
   (b) Explain Stealing Frames and Forcing pages?
   (c) What are difference between update log record and CLRS?   [7+5+4]

4. Discuss in detail about estimating the cost of an evaluation plan for a query block.   [16]

5. State and explain any six heuristic rules used in optimizing relational queries. [16]

6. Write about the following operations with suitable examples.
   (a) Select operation
   (b) Project operation
   (c) Rename operation
   (d) Natural join operation.   [3+3+4+6]

7. (a) Construct an E-R diagram for university registrar's office. The office maintains data about each class, including the instructor, the enrollment and the time and place of the class meetings. For each student class pair, a grade is recorded. Determine the entities and relationships that exist between the entities. Also construct the tabular representation of the entities and relationships.
   (b) What is an entity type? What is an entityset? Explain the difference between the entity, entity type and entityset?   [10+6]

8. (a) What are the steps followed while creating a table in SQL.
   (b) What are the various salient features of the SQL.
   (c) Describe the views.   [5+5+6]

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Code No: NR320505   **NR**   **Set No. 3**

III B.Tech II Semester Examinations,December 2010
DATABASE MANAGEMENT SYSTEMS
Common to Electronics And Computer Engineering, Computer Science And
Engineering, Computer Science And Systems Engineering
Time: 3 hours   Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Construct a B-tree for the following set of key values, under the assumption that the member of search key values that fits in a node is 3.
   a,c,m,r,q,d,f,l,x,z,n,y   [16]

2. Discuss in detail about estimating the cost of an evaluation plan for a query block.
        [16]

3. (a) How is the Recovery Manager is responsible for transaction atomicity and durability? Explain.
   (b) Explain Stealing Frames and Forcing pages?
   (c) What are difference between update log record and CLRS?   [7+5+4]

4. (a) Construct an E-R diagram for university registrar's office. The office maintains data about each class, including the instructor, the enrollment and the time and place of the class meetings. For each student class pair, a grade is recorded. Determine the entities and relationships that exist between the entities. Also construct the tabular representation of the entities and relationships.
   (b) What is an entity type? What is an entityset? Explain the difference between the entity, entity type and entityset?   [10+6]

5. (a) With an example explain Serial and non-Serial Serializability schedule.
   (b) Write a note on concept of tansaction processing   [8+8]

6. State and explain any six heuristic rules used in optimizing relational queries. [16]

7. (a) What are the steps followed while creating a table in SQL.
   (b) What are the various salient features of the SQL.
   (c) Describe the views.   [5+5+6]

8. Write about the following operations with suitable examples.

   (a) Select operation
   (b) Project operation
   (c) Rename operation
   (d) Natural join operation.   [3+3+4+6]

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