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Code: 9A05401



Max. Marks: 70

B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013 DATABASE MANAGEMENT SYSTEMS

(Electronics and Control Engineering)

Time: 3 hours

Answer any FIVE questions All questions carry equal marks

- 1 (a) Define the terms data, field, record and file. Explain.
  - (b) What is internet? Explain the role and scope of the data base market.
- 2 (a) Discuss about the computed attributes with examples.
  - (b) What is an entity cluster? Explain the advantages of entity cluster.
- 3 (a) Explain about different keys that are used in a relational DB.
  - (b) Consider two tables painter, painting and perform select and project set operations.
- 4 (a) Explain about the logical AND, OR and NOT operators.
  - (b) Consider a table and perform UNION, UNIONALL, INTERSECT and MINUS queries based on that table.
- 5 (a) Define the concept of MVD and desirable? How this concept relates to 4NF provide an example to illustrate your answer?
  - (b) In a relation R(A, B, C, D, E, F, G, H, I, J) different set of FD's are given  $G = (\{A,B\}->\{C\}->\{B,D\}->\{E,F\},\{A,D->\{G,H\},\{A\}->\{I\},\{H\}->\{J\})$ 
    - (i) What is the key of R?
    - (ii) Decompose R into 2NF, then 3NF relation.
- 6 (a) What is database recovery management? Explain.
  - (b) Define transaction. Explain how it is evaluated for transaction results.
- 7 (a) What is restart recovery and logical undo logging? Explain.
  - (b) Explain how the recovery can be done with concurrent transaction.
- 8 Define the following terms:
  - (a) Seek time.
  - (b) Latency time.
  - (c) Waiting time.
  - (d) Response time.

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