Code: 9A05401

R09

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015

DATABASE MANAGEMENT SYSTEMS

(Electronics & Computer Engineering)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1   (a)   Explain relational database entities with example.
    (b)   Describe object database management system.

2   (a)   What is redundancy? What are the problems caused by the redundancy?
    (b)   Explain about the derived attributes and write its advantages and disadvantages.

3   (a)   What is the difference between super key and candidate key? Explain with example.
    (b)   What is an Index? Why we need to create indices? Explain with an example.

4   What are the date and time functions that are available in advanced SQL?

5   (a)   What are the anomalies in 3NF?
    (b)   What is Boyce – Codd normal form?
    (c)   Compare 3NF with BCNF.

6   (a)   What is database recovery management? Explain.
    (b)   Explain about:
          I. Uncommitted data.
          II. Inconsistent retrieval.

7   (a)   Describe the terms log record buffering and database buffering.
    (b)   Explain detail about advanced recovery techniques for remote system.

8   Discuss the concept of multi-key file organization.

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