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M.C.A. DEGREE II SEMESTER EXAMINATION MAY 2015

CAS 2201 DATABASE MANAGEMENT SYSTEMS
(Regular)

Time : 3 Hours

Maximum Marks : 50

PART A
(Answer *ALL* questions)

(15 x 2 = 30)

- I. (a) What are the disadvantages of the traditional file system?
(b) What is data definition language?
(c) Explain data abstraction.
- II. (a) Explain the term "Query Language".
(b) Discuss the "select" operation.
(c) What are triggers?
- III. (a) Describe the pitfalls in design.
(b) Explain BCNF.
(c) What is a sparse index?
- IV. (a) What do you mean by serializability?
(b) Explain the term "Transaction".
(c) What are timestamps?
- V. (a) List the advantages of distributed databases.
(b) What is an XML document? What is its purpose?
(c) What are biological databases?

PART B

(5 x 4 = 20)

- VI. Compare and contrast traditional file system and database system.
OR
- VII. Explain keys and their relevance.
- VIII. What is the purpose of creating views? Illustrate the use of views.
OR
- IX. Give an overview of QUEL.
- X. Create an E-R diagram for an employee leave management system.
OR
- XI. How are bucket overflows handled in hashing?
- XII. Give a brief discussion on ACID properties of transactions.
OR
- XIII. Explain deadlock prevention.
- XIV. Outline distributed data storage.
OR
- XV. Explain in detail, any two applications of data mining.
