

MCA.III/11.15.1033

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A

MCA DEGREE III SEMESTER EXAMINATION NOVEMBER 2015

CAS 2302 DATABASE MANAGEMENT SYSTEMS

(Supplementary)

Time : 3 Hours

Maximum Marks : 50

PART A

(Answer *ALL* questions)

(15 × 2 = 30)

- I. (a) Differentiate between database and file systems.
(b) Discuss on the main functions of a DBA.
(c) Explain mapping cardinalities.
- II. (a) What is embedded SQL?
(b) Explain functions and procedures.
(c) Write a note on QUEL.
- III. (a) Discuss on the main pitfalls in design.
(b) How do we organize records in files?
(c) Discuss on indexing and hashing.
- IV. (a) Discuss on serializability.
(b) Explain the concept of transaction.
(c) Explain transaction management in multi databases.
- V. (a) Explain distributed database.
(b) Discuss on the applications and challenges in multimedia database.
(c) Explain data warehousing.

(P.T.O.)

PART B

(5 × 4 = 20).

VI. With a neat sketch explain database architecture.

OR

VII. Differentiate different data models.

VIII. Discuss on trigger and cursor with suitable examples.

OR

IX. Discuss on basic relational calculus operations with example.

X. Explain database design for banking enterprise with a neat ER diagram

OR

XI. What is normalization? Why is it used? Explain with example.

XII. Discuss on the two phase locking procedure.

OR

XIII. Explain deadlock and how to handle it.

XIV. Explain the structure of XML data with examples.

OR

XV. Differentiate OODBMS and ORDBMS.
