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Total No. of Questions : 09] [Total No. of Pages : 02

MCA (Sem. - 4th)

RELATIONAL DATABASE MANAGEMENT SYSTEM - II

SUBJECT CODE : MCA - 401

Paper ID : [B0115]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours **Maximum Marks : 60**

Instruction to Candidates:

1) Attempt any **One** question from each sections **A, B, C & D.**
2) Section - E is **Compulsory.**
3) Use of non-programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

Q1) What is database life cycle? Explain all the phases of database life cycle.

Q2) State and explain the design and implementation issues for active databases.

Section - B

(1 × 10 = 10)

Q3) (a) Explain MPMD (Multiple-Site Processing, Multiple-Site Data).

(b) Explain distributed database transparency features.

Q4) Explain various techniques of concurrency control.

Section - C

(1 × 10 = 10)

Q5) Explain the implementation and design issues for a client/server architecture.

Q6) Explain two-tier and three tier client/server architecture in detail.

Section - D

(1 × 10 = 10)

Q7) Explain in detail various decision support systems.

Q8) (a) Explain the evaluation of the data warehouse.

(b) Explain OLAP (Online Analytical Processing).

Section - E

Q9) *(10 × 2 = 20)*

a) What is data abstraction?

b) Define heterogeneous DBMS.

c) What is time stamping?

d) What are the advantages of DDBMS?

e) What are fat clients?

f) What is decentralized design?

g) Define data fragmentation?

h) What is operational data?

i) What is data mining?

j) List rules for data warehouse.

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