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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 & Onwards) (Sem.–2)
RELATIONAL DATABASE MANAGEMENT SYSTEMS
Subject Code : MCA-202
Paper ID : [72877]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.
3. Use of non-programmable scientific calculator is allowed.

SECTION-A

1. Explain the three level architecture of DBMS.
2. Explain the concept of cardinality ratios with examples using E-R diagrams.

SECTION-B

3. Differentiate between multi-valued dependency and join dependency with examples.
4. a. Explain transaction properties.
b. Explain the use of intent locking to handle concurrency.

SECTION-C

5. What are the different objectives for using Distributed DBMS? Explain.
6. a. Differentiate between SPSD and MPSD.
b. Explain client-server architecture.

SECTION-D

7. Explain online analytical processing.
8.
 - a. Differentiate between transaction processing and decision support system.
 - b. Explain DSS database properties.

SECTION-E

9. Write briefly :

- a. What is star schema?
- b. Define ROLAP.
- c. Define 3 normal form.
- d. Define location independence.
- e. Define serializability.
- f. Explain exclusive lock.
- g. What is candidate key?
- h. Differentiate between single-valued and multi-valued attribute.
- i. What is data abstraction?
- j. What is referential integrity?