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Total No. of Questions: 09

MCA (2014 Batch) (Sem.-2) RELATIONAL DATABASE MANAGEMENT SYSTEMS

Subject Code: MCA-202 M.Code: 26053

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

- Define DBMS. Discuss the concepts of data independence and data abstraction. 1
- 2. Discuss the process of database design.

SECTION-B

- What are the various types of Constraints? Explain each with an example. 3.
- 4. What do you mean by database recovery? Discuss the various recovery mechanisms in detail.

SECTION-C

- 5. What are distributed database management systems? Discuss the advantages and disadvantages of DDBMS.
- What are distributed database transactions? What are its features? Discuss transaction 6. transparency in detail.

SECTION-D

- What do you mean by DSS? What is the importance of DSS databases? Explain the DSS 7 database requirements.
- Define OLAP. Elaborate OLAP architecture. 8.

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SECTION-E

9. Write briefly:

- a. What is Composite entity?
- b. Why do we need mappings between schema levels?
- c. Define Multi-Valued Dependency.
- d. Define Object-oriented database.
- e. What is concurrency? What are its problems?
- What are shared and exclusive locks? Explain with the help of suitable example.
- Differentiate between centralized and decentralized database designs.
- h. Define and distinguish between SPSD and MPMD.
- at fic. What is operational data? How is it different from decision support data?
- What is database administration?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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