

NOVEMBER/DECEMBER 2019

**MCS14 — DATABASE MANAGEMENT  
SYSTEM**

Time : Three hours

Maximum : 75 marks

**SECTION A — (5 × 6 = 30 marks)**

Answer ALL questions.

1. (a) Explain the various levels of Data Abstraction.

Or

- (b) Discuss the components of Query Processor.

2. (a) Explain the Structure of Relational Databases.

Or

- (b) Discuss the different parts of SQL Languages.

3. (a) Write a short note on Boyce-Codd Normal Form.

Or

- (b) Explain about Multivalued Dependencies.

4. (a) Explain the Hierarchy of Storage device with a neat diagram.

Or

- (b) Briefly explain about Ordered Indices.

5. (a) Explain the different form of data transparency.

Or

- (b) Briefly explain Distributed Transaction System Architecture.

**SECTION B — (3 × 15 = 45 marks)**

Answer any THREE questions.

6. Write in detailed account on Entity -Relationship Model.
7. List and explain the different aggregate functions in SQL.
8. Explain in detail about 4NF Decomposition.
9. Elucidate the different levels of RAID.
10. Explain in detail Structure of XML Data.

