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Total No. of Pages: 02
Total No. of Questions: 07

BCA (Sem.-4th)
DATABASE MANAGEMENT SYSTEM
Subject Code: BSBC-404
Paper ID: [B0243]

Time: 3 Hrs.**Max. Marks: 60****INSTRUCTIONS TO CANDIDATE:**

- 1) *Section-A is Compulsory.*
- 2) *Attempt any Four questions from Section-B.*

SECTION-A**(10x2=20)**

Q.1. Write briefly:

- a) List various characteristics of Network data model.
- b) What is join? Illustrate with an example.
- c) How security is different from protection?
- d) What is dirty read problem? Explain with an example.
- e) What is functional dependency? How it is different from multi-valued dependency?
- f) What is an optimistic concurrency control method?
- g) List various limitations of file oriented approach.
- h) What is referential integrity rule?
- i) What are advantages and disadvantages of Hierarchical model?
- j) What is primary key? What is its need?

SECTION-B**(4x10=40)**

Q.2. What is DBMS? Draw and explain the three level architecture of database system.

Q.3. What is Entity Relationship Model? Discuss its role in database theory.

Q.4. Write notes on the following:

- a) Responsibilities of DBA.
- b) Relational Model

- Q.5. Define relational algebra. Explain how it is different from relational calculus.
- Q.6. Define normalization. What is its need? Explain 4th and 5th normal form by taking suitable examples.
- Q.7. Explain the following:-
- a) Design of distributed database.
 - b) Disaster Management

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