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

Q.4. Write notes on the following:

Q.2.

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

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

Time: 3 Hrs.

INSTRUCTIONS TO CANDIDATE:

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

SECTION-A

Q.1. Write briefly:

- List various characteristics of Network data model. a)
- 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.
- What is functional dependency? How it is different from multi-valued dependency? e)
- What is an optimistic concurrency control method? f)
- List various limitations of file oriented approach. g)
- h) What is referential integrity rule?
- What are advantages and disadvantages of Hierarchical model? i)
- What is primary key? What is its need? i)

SECTION-B

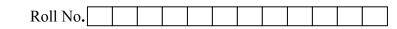
What is DBMS? Draw and explain the three level architecture of database system.

(4x10=40)

Max. Marks: 60

(10x2=20)

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



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

---:END:---

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