Section – A: Theory Questions

1. **Who proposed the theoretical basis for relational database management?**
2. **What are the benefits of using a relational database management system instead of a traditional file system?**
3. **What is the ER-model and what are the three types of it?**
4. **How many types of relationships exist in a relational database management system?**
5. **How many types of data models are there in a relational database management system?**
6. **What are the different types of operations in a DBMS?**
7. **What are the advantages and features of a DBMS?**
8. **What is anomaly and how many types of anomalies exist in a relational database management system?**
9. **What are functional and transitive dependencies in a relational database management system?**
10. **What is normalization and how many types of normalization exist in a relational database management system?**
11. **Explain the normal forms (1NF, 2NF, and 3NF) in a relational database management system.**
12. **What is the difference between Database and Table?**