

SECTION-B

2. Explain the need of normalization in database.
3. Discuss the various disadvantages in the file system and explain how it can be overcome by the database system.
4. What is E-R model? What is the use of E-R model? Draw any E-R diagram of your choice. Specify different entities, their attributes, cardinalities and degrees of the relationships in the E-R model.
5. What do you mean by deadlock? How it can be removed?
6. What is the purpose of RAID? Which level of the RAID is best? Why?

SECTION-C

7. Diagrammatically illustrate and discuss the steps involved in processing a query. (10)
8.
 - a) What is Lossless-join decomposition? (2)
 - b) Explain two types of Participation constraints. (3)
 - c) What is the difference between tuple relational calculus and domain relational calculus? (5)
9. Explain deferred database modifications and immediate database modification recovery techniques. (10)