

**SET
B**

Full Marks: 35

Marks: 10

$$1 \times 10 = 10$$

Objective

- 1

- c. Establishes an index for a file d. Both (b) & (c)
10. The concept of locking can be used to solve the problem of
- a. Lost update b. Inconsistent data
- c. Uncommitted dependency d. All of these

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(Descriptive)

Time : 1 hrs. 15 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. What is DBMS? What are the advantages of DBMS? 5
2. Describe the three-schema architecture with diagram. Why do we need mappings among schema levels? 7 +3=10
3. a. Explain the steps for converting regular entity from ER to Relational Mapping with example. 5 + 5=10
b. What is integrity constraint? What do you mean by referential integrity? Explain.
4. What is normalization? Explain first, second, & third normal form. 10
5. a. Why concurrency control is needed? What is locking? 5 +5=10
b. Discuss the advantages and disadvantages of using (a) an unordered file. (b) an ordered file

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