

B.E. Seventh Semester (Information Technology) (CGS)
10751 : Elective - I : Distributed DBMS : 7 IT 05

P. Pages : 2

Time : Three Hours



AU - 2922

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **three** question from Section A and **three** question from Section B.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What do you mean by Distributed data processing. Explain in detail. 7
b) What do you mean by Normalization? Explain different Normal forms with example? 7

OR

2. a) What do you mean by referential Integrity constraint? Give example. 7
b) What are the various types of Network? Explain each in detail. 7
3. a) Explain different architectural models of DDBMS? 7
b) What do you mean by Fragmentation? Give advantages and disadvantages. 6

OR

4. a) Explain functional schematic of an Integrated distributed DBMS. 6
b) Explain top down and bottom up design process. 7
5. a) Explain characteristics of query processors in detail. 6
b) Explain layers of query processing. 7

OR

6. a) What do you mean by equivalent distributed execution strategies? Explain. 6
b) What are objectives of Query Processing? 7
7. a) Explain in detail various properties of Transaction. 7
b) What do you mean by deadlock? Explain deadlock prevention and Avoidance. 7

OR

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|----|----|---|---|
| 8. | a) | Explain in detail Locking based concurrency control Algorithms. | 7 |
| | b) | Explain types of Transaction. | 7 |
| 9. | a) | Explain different types of failures in distributed DBMS. | 7 |
| | b) | Explain local recovery manager and buffer manager. | 6 |

OR

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|-----|----|---|---|
| 10. | a) | Explain with the help of diagram logging interface. | 7 |
| | b) | Explain the chain of event leading to system failure. | 6 |
| 11. | a) | Explain data stream management in detail. | 6 |
| | b) | Explain architecture of data warehouse with diagram. | 7 |

OR

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|-----|-----|--|---|
| 12. | a) | Explain architectural issues of ODBMS. | 7 |
| | b) | What is mobile database? Explain. | 6 |
| | i) | Directory Management. | |
| | ii) | Caching. | |

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