

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER-IV • EXAMINATION- SUMMER • 2014

Subject Code: 740101**Date: 04-06-2014****Subject Name: Distributed Database System****Time: 02:30 pm - 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|------------|-----|---|-----------|
| Q.1 | (a) | Using example discuss distributed object storage | 07 |
| | (b) | List and explain problems exist in a relation scheme | 07 |
| Q.2 | (a) | Discuss object orientation & interoperability | 07 |
| | (b) | Explain each components of distributed DBMS architecture | 07 |
| | | OR | |
| | (b) | Explain issues affect the particular matching algorithm | 07 |
| Q.3 | (a) | List and Explain parallel execution problems | 07 |
| | (b) | Explain merits of Semantic Integrity control | 07 |
| | | OR | |
| Q.3 | (a) | Discuss in detail parallel architectures | 07 |
| | (b) | Using example discuss issues of view in a distributed DBMS | 07 |
| Q.4 | (a) | List difference between local reliability protocols and distributed reliability protocols | 07 |
| | (b) | Using proper example explain query decomposition | 07 |
| | | OR | |
| Q.4 | (b) | Using appropriate case explain properties of transactions | 07 |
| Q.5 | (a) | Explain characteristics of optimistic concurrency control algorithms | 07 |
| | (b) | Explain limitation of distributed query optimization algorithms | 07 |
| | | OR | |
| Q.5 | | | |
| | (b) | Explain difference between static QOA Dynamic QOA | 07 |
