

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. Sem – IV Examination May 2011****Subject code: 740101****Subject Name: Distributed Database System****Date: 16/05/2011****Time: 10.30 a.m. - 01.00 p.m.****Total Marks: 70****Instructions:**

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

- Q.1** (a) Explain distributed database system in detail 07
(b) Explain normalization with a suitable Example 07
- Q.2** (a) Explain OLAP and data warehousing 07
(b) Explain the terms : protocol standards, broadband networks, wireless and Internet protocols. 07
- OR**
- (b) Explain client/server reference architecture. 07
- Q.3** (a) Explain schema integration in detail. 07
(b) What is vertical fragmentation ? Explain with examples . 07
- OR**
- Q.3** (a) How do you perform object management? 07
(b) Explain centralized semantic integrity control with examples. 07
- Q.4** (a) Explain query processing system with examples. 07
(b) Explain distributed query optimization algorithms. 07
- OR**
- Q.4** (a) Give an example workflow during transactions. 07
(b) Explain reduction for hybrid fragmentation. 07
- Q.5** (a) Give details on complexity of relational algebra operations. 07
(b) Explain centralized query optimization ? 07
- OR**
- Q.5** (a) Explain the property of transactions. 07
(b) Explain query analysis with examples. 07
