

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA - SEMESTER-V • EXAMINATION – SUMMER - 2016**

**Subject Code: 2650004****Date: 11/05/ 2016****Subject Name: Advanced Data Base Management Systems (ADBMS)****Time: 10.30 AM TO 01.00 PM****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)** Gives the Drawbacks of File System over the Database System. **07**
- (b)** Discuss Schema, Instance and State for the Database. **07**
- Q.2 (a)** Explain the Following features for Temporal Database with Example. **07**
1. Valid time.
  2. Transaction time.
  3. Bitemporal time.
- (b)** Explain the Following features for Distributed Database. **07**
1. Data Replication.
  2. Fragmentation transparency.
  3. Multidatabase.
- OR**
- (b)** Explain the Types of Distributed Database. **07**
- Q.3 (a)** Discuss gather Statistics during Tuning. **07**
- (b)** Discuss Discretionary Access Control Based on Granting and Revoking Privileges. **07**
- OR**
- Q.3 (a)** Explain Multi-level Indexes OR two-level indexes. **07**
- (b)** Explain Types of Protection of databases against threats. **07**
- Q.4 (a)** What is Transaction Log? How store the Record of Transaction Explain with Proper format of Log file. **07**
- (b)** Discuss Implementation and Related Issues for Extended Type Systems. **07**
- OR**
- Q.4 (a)** Brief Discuss Checkpoints and Fuzzy Checkpointing in system in System Log. **07**
- (b)** Explain the Concept of Configuration using Oracle Net Configuration Assistant and Oracle Net manager Tools. **07**
- Q.5 (a)** Show Concept of Services and Configuration Services on Client side. **07**
- (b)** What is GIS? Explain Data Management Requirements of GIS. **07**
- OR**
- Q.5 (a)** Explain Evaluation and current Trends for Database Technology. **07**
- (b)** Discuss Short note on Tuning Query. **07**

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