GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII (OLD) EXAMINATION - WINTER 2018 Subject Code: 171602 Date: 29/11/2018 Subject Name: Distributed Database Application & System Total Marks: 70 Time: 10:30 AM TO 01:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 07 (a) Explain the potential problems with DDBMS. 0.1 (b) Define Normalization. Explain Normalization up to BCNF. 07 (a) Explain top-down design process in detail. 07 0.2 (b) What are distributed systems? Compare distributed system with centralized one? 07 OR (b) Explain views in centralized DBMSs with examples. 07 0.3 Explain layers of query processing. 07 (b) Explain Peer to Peer Distributed System. 07 OR Q.3 (a) List steps of query decomposition and discuss the same in brief 07 (b) What are the various types of computer networks? Explain in detail. 07 (a) Explain MDBMS architecture with and without GCS for distributed DBMS. 0.4 07 (b) What is authorization control? How do imply authorization control in a 07 distributed environment? OR 0.4 Explain layers of transparency. 07 (b) Explain Distributed Cost Model with an example. 07 (a) Write a note on parallel database system. 07 0.5 (b) Define a transaction. Discuss the ACID properties of transaction in the context 07 of DDBs. OR (a) Write short note on: Reliability in Distributed DBMS Q.5 07 (b) Write short note on: Two Phase Commit Protocol for Distributed Transactions 07

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1