Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II • EXAMINATION - SUMMER - 2017

Subject Code: 2722311 Subject Name: Advance Database			Date: 26/05/2017	
	•		Total Marks: 70	
Inst	2.	Attempt all questions.		
Q.1	(a) (b)	List and explain various partitioning techniques of I/O parallelism. Discuss client server system architecture with suitable diagram.	07 07	
Q.2	(a) (b)	Write a note on Data Fragmentation and Data Replication. Compare centralized and distributed database with its pros and cons.	07 07	
	(b)	OR Discuss following: 1. Hash partitioning 1. Range partitioning.	07	
Q.3	(a) (b)	Draw and explain three tier data warehouse architecture. List and discuss various OLAP operations. OR	07 07	
Q.3	(a) (b)	Discuss following: 1. Attribute value skew 2. Partition skew Explain Star, Snow Flake and Fact Constellation schemas of multidimensional data models with suitable diagram.	07	
Q.4	(a) (b)	Explain XPath and XQuery with appropriate example. Discuss Inter query parallelism and Intra query parallelism. OR	07 07	
Q.4	(a) (b)	Explain two phase commit protocol. List and explain various approaches to store XML data in database. Also, discuss its advantages and disadvantages.	07 07	
Q.5	(a) (b)	Discuss multimedia database and time-in database. Explain Transaction processing monitor architectures with proper diagram. OR	07 07	
Q.5	(a) (b)	Write a note on transactional workflows. Explain spatial and geographical database.	07 07	
