Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VII • EXAMINATION - SUMMER 2015** 

Subject Code: 171602 Date:04/05/2		2015	
•	: 02:	ame: Distributed Database Application & System 30 to 05:00 Total Mark	ks: 70
	2. N	Attempt all questions. Nake suitable assumptions wherever necessary. igures to the right indicate full marks.	
Q.1	(a) (b)	Explain Properties of Transactions.  Explain MDBS architecture with and without GCS.	07 07
Q.2	(a) (b)	What is transparency? Explain Layers of transparency in DDBS.  What do you mean by normalization? Explain 3 <sup>rd</sup> and BCNF Normal form.  OR	07 07
	(b)	Explain the following terms: protocol standards, broadband networks, wireless network and Internet protocols.	07
Q.3		Derive simple predict, minterms and from that find out all possible Horizontal Fragments for the following: Consider relation Proj(PNo,PName,Budget,Loc) assume two applications will run on different sites, First application select names and budgets of projects given their location and it will run on three sites, second application run on two sites and manage project having budget less than Rs. 2,00,000 on one site and higher to these are managed at other site.  Discuss attribute affinity matrix, ca matrix, BEA algorithm in the context of	07
	(b)	vertical fragmentation with example.  OR	
Q.:	3 (a) (b)	Explain distributed semantic integrity control with example.  For given query draw Query graph and join graph also rewrite the query and draw rewritten operator tree.  "Find the names and responsibility of programmer who have been working on the CAD/CAM project for more than 3 years and their manager's name."	07 07
Q.	4 (a) (b)	Draw Block diagram of TOP-DOWN design process and explain.  Explain with an example reduction for primary horizontal fragmentation.  OR	07 07
Q.	4 (a) (b)	and the second s	07 07
Q.	5 (a) (b)	many transfer of the control of the	07 07
Q.	5 (a) (b)	Explain with diagram Layers of query processing?	07 07
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