T.E. (computer) (SemVI) (CBSGS)

Paper / Subject Code: 36803 / DISTRIBUTED DATABASES Date-10 12 19

		(3 Hours)				[Total Marks: 80]		
Note:								
1. 2.		Question No.1 is Compulsory. Attempt any 3 questions out of the remaining Questions.						
3.		Make suitable Assumptions whenever necessary.						
4.			ту equal marks					
Q 1.	c)	Explain Distributed Database Design Issues?						
Q 2.	a) b)	Draw and Explain Model of Transaction Management in DDB. Describe clearly Two Phase Commit (2PC) Protocol.						
Q 3.	 a) Explain any one Timestamp Based Concurrency Control Mechanisms in DDB. b) Explain types of fragmentation? Perform Primary Horizontal Fragmentation of relation Department looking for departments located at different site and accesses department information according to funds one site access <=30,0000 and other site access >30,0000. 							[10]
			DNo	DName	Funds	Loc		[10]
			D001 D002	HR	235,000	NY		
			D002	Development Testing	410,000 300,000	NY UK		
			D004	Maintenance	350,000	UK		
Q 4.	teach the courses in each semester. Each course must also have information about the number of student enrolled, room no., date and time (when and where the course is conducted) i. Create an XML Schema (.xsd) for above XML documents ii. Write XQuery for the following: Retrieve Course name which was conducted on 25/02/19 at 11.15 a.m.							[10]
	b)	What are the various kinds of transparencies in distributed database design? Explain each with the help of an example.						[10]
Q 5.	a) b)	Explain Phases in Distributed Query Processing in Distributed Database? Explain Wait Die and Wound Wait Method with the help of an example?						[10] [10]
Q 6.	a)	Explain Distributed Database Architecture with neat diagram.						[10]
	b)	List and Ex	plain anomalies	of Concurrency Co	ontrol in distrib	buted syst	em?	[10]