Registration no:											
								M.TECH			
2nd Semester Back Examination 2016-17 DISRIBUTED DATABASE SYSTEM Branch: COMPUTER ENGG, COMPUTER SCIENCE, COMPUTER SCIENCE ENGG, COMPUTER SCIENCE AND TECH., INFORMATION TECH. Time: 3 Hours Max Marks: 70 Q.CODE:Z1169 Answer Question No.1 which is compulsory and any five from the result of the figures in the right hand margin indicate marks. Q1 Answer the following questions: a) What is the difference between local applications and distributed applications? b) What are three typical frequency measurements that can be used to classify the regularity of data delivery? c) Explain local mapping transparency. d) What do you mean by integrity constraints in distributed database? Explain with a suitable example. e) What are the objectives of the design of data distribution? f) Explain distributed join.								CSPE201 NCE AND I. rest. (2 x 10)			
g) h) i)	What is data How distrib graph(LWF)	What is byzantine agreement? What is data replication? How distributed wait-for graph (DWFG) is different from local wait-for graph(LWFG)? What is MULTIBASE?									
Q2 a)	Explain the features of distributed database. How it is different from centralized database?								m (5)		
b)	Draw and e			mponer	nts of d	listribute	ed DB	MS.		(5)	
Q3	What do y levels of dis the given SUPPLIER(and the follo Read(tty,\$P Select Nam from SUPPL where SUPL and SUPPL Write(tty,\$N	stribution transa (SNO,NAI owing tran NO) e into \$N LIER,SUF PLIER.SI Y.PNO=\$	transpa action ME,CIT nsaction ame PPLY NO=SU	rency. \ and Y) and n:	What is why? SUP	the le	vel of sider	transp the	arency of schem	of a	
Q4 a) b)	What do you data fragme Bottom-Up be designed	entation w design ap	ith suita oproach	able exa n is suita	mple. able wl	hen a d	databa			, ,	

Q5	a) b)	Explain 2-Phase-Commitment Protocol in distributed database system. What do you mean by concurrency control in distributed database system? Explain the timestamp mechanism.	(5) (5)
Q6	a)	List the heuristics for query optimization. Explain any one heuristic with a proper example.	(5)
	b)	Explain checkpoint and cold restart of a distributed database system.	(5)
Q7	a) b)	Explain function shipping in CICS/ISC. List the problems of Heterogeneous distributed databases.	(5) (5)
Q8	a) b) c) d)	Write Short Notes (Any Two) Non-locking commitment protocols. Distributed deadlock. ENCOMPASS Write-locks-all.	(5 x 2)