## Sem-II comp. (CB45) 20/5/16.

## Distributed Databases

**Q.P. Code:** 581700

			(3 Hours)	[ Total Marks :	80
N	N.B. :	(1) (2) (3) (4)	Question No.1 is Compulsory.  Attempt any 3 questions out of the rest Figure to the right indicate full marks.  All question carry equal marks.		
1.	a)	Wha	t are advantages and disadvantage of Distributed DBM	s Sol	5
	b)	Wha	t are the features of DDBMS?	ું જો	5
	c)	Expl	ain the basic Timestamp Ordering Algorithm.	S. S. A.	5
	d)	Wha	t are the objectives of Distributed Query Processing?	\$ <sup>0</sup>	5
2	a)	horiz relati	t is horizontal and vertical fragmentation? What are contal fragmentation. Perform horizontal fragmentatio ion as given below.  give the correctness criteria for it.	5 5	10
			ent (Studentrollno., Student Name, Course Name, Cours	se Fees, year)	
	b)		t are the various kinds of transparencies in distributed dat ain each with the help of an example	abase design?	10
3	a)		t are the various concurrency control techniques? Compa currency Control strategies in detail.	re Lock based	10
	b)	Avoi	pare Distributed Deadlock prevention to Distributed dance. Explain one scheme of Distributed deadlock Invery.		10
1	a)	the ty its fu Card (Sav: trans	nking database should contain the customer's information uppers of accounts customer is maintatining. Customer is all profile information along with his current address, Pano. included and account information should include tying, fixed, demat, recuring, current), date and time of a actions details.	nformation is AN ID, adhar pe of account	10
	b) P	ii) Wha	Write the DTD rules for the above XML documents.  Create an XML schema for the above XML documents are homogenous and heterogeneous database. Give the eterogeneous databases along with some query processing the statement of the company of the com	e architecture	10

## Q.P. Code:

What problems can occur in a distributed system due to the failure of link and partitioning of the network? What are the ways by which recovery can take place?

10

b) Explain the phases of query processing in distributed database.

20

- 6 Answer any two:
  - a) Bond Energy Algorithm
  - b) Design issues of Distributed Database
  - c) 3PC
  - d) Transaction management model for distributed System.