No. of Printed Pages: 3

BICSE-007

Maximum Marks: 70

## B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00655

Time: 3 hours

## **Term-End Examination**

## December, 2014

## **BICSE-007: DISTRIBUTED DATABASE**

<b>Note:</b> Answer any <b>seven</b> questions. All questions carry equal marks.		
<ol> <li>(a) Explain any popular application database. Compare distributed datab with centralized database.</li> </ol>		
(b) Describe the various components DDBMS.	of 5	
2. (a) Define federated database system a multi database system.	and 5	
(b) Discuss the properties of distributranscations.	ited <i>5</i>	
3. (a) Explain the methods for concurre control in distributed transcations.	ncy 5	
(b) Explain three phase commit protocol detail.	in <i>5</i>	

	(i)	OLAP Data Model	
	(ii)	OLAP server	
5.	(a)	Explain Semi-Join reduction in distributed database.	5
	(b)	What is Replication? Explain important types of replication techniques.	5
6.	(a)	Explain the issues of recovery in distributed database.	5
	(b)	Explain the types of failure in distributed system.	5
7.		able for different kinds of distributed	10
8.	_	tain the following with the help of apples: $3+3+4=$	10
	(i)	Horizontal fragmentation	
	(ii)	Vertical fragmentation	
	(iii)	Mixed fragmentation	
9.	Desc	ribe the architecture for locking scheduler	10

Explain the following in detail:

 $2 \times 5 = 10$ 

- **10.** Write short notes on any two of the following:  $2\times5=10$ 
  - (a) Buffer Architecture
  - (b) Client/Server systems
  - (c) Multiway Joins