T.E. (IT) (Sem-VI) (CBSGS)

Time: 3 Hours Marks: 80

Date-5/12/19

N.B. 1. Question no.1 is compulsory.

- 2. Attempt any 3 questions out of remaining 5 questions.
- 3. Figures to the right indicate full marks.
- 4. Assume suitable data wherever necessary.

Q.1	a)	Compare NOS and DOS	[5]
	b)	What is CORBA and explain types of method invocation in CORBA.	[5]
	c)	What are Roles in EJB?	[5]
	d)	Explain Service Oriented Architecture (SOA) lifecycle with a diagram.	[5]
Q.2	a)	Define Happened- Before Relationship. Explain implementation of logical clocks with an example.	[10]
	b)	Describe various transparencies in distributed system.	[10]
Q.3	a)	Explain migration in Heterogeneous system.	[10]
	b)	Describe the need for coordinator in distributed system. Demonstrate the working of Election algorithm.	[10]
Q.4	a)	Describe desirable features of a good message passing system.	[10]
	b)	Describe different distributed computing models.	[10]
Q.5	a)	Explain client centric consistency model in distributed system.	[10]
	b)	Explain need of deadlock detection algorithm. Explain probe based distributed deadlock detection algorithm	[10]
Q.6		Write short note on (Any two)	[20]
	a)	Group communication	
	b)	NET architecture	
	c)	RMI Execution	