		Time – 3 hrs.	Marks 80
N.B.	<ol> <li>Question no.1 is compulsory.</li> <li>Attempt any 3 questions out of remaining 5 questions.</li> <li>Figures to the right indicate full marks.</li> <li>Assume suitable data wherever necessary.</li> </ol>		
Q.1	a	Compare NOS and DOS	5 M
	b	What are various kind of message buffering techniques used	
		in IPC.	5 M
	c	What are Roles in EJB?	5 M
	d	Explain Service Oriented Architecture (SOA) lifecycle	
		with a diagram.	5 M
Q.2	a	Describe the need for coordinator in distributed system.	
		Demonstrate the working of Election algorithm.	10 M
	b	What are the components of CORBA? List the advantages of CORBA.	10 M
Q.3	a	Describe desirable features of a good message passing system	. 10 M
	b	Explain client centric consistency model in distributed system	. 10 M
0.4			10 M
Q.4	a b	Explain migration in Heterogeneous system.  Describe different distributed computing models.	10 M 10 M
	U	Describe different distributed computing models.	10 101
Q.5	a b	Describe various transparencies in distributed system.  Explain need of deadlock detection algorithm.	10 M
		Explain probe based distributed deadlock detection algorithm	. 10 M
Q.6	Write short note on (Any two) 20 M		
	a	Group communication	
	b	. NET architecture	
	C	RPC communication protocol	
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