## IT/CB45/VI/D.S | 29.11.2016 Bistributed Systems. Q.P. Code: 594803

(3) Assume suitable data whereever necessary.

N.B.: (1) Question No.1 is compulsory.
(2) Solve any three from remaining five.

[ Total Marks: 80

		(4)	Figures to the right indicate full marks.	
1.	Α	Attempt the following (any four):		
		(a)	Compare Stateful and Stateless server implementations.	
		(b)	Explain what is a callback RPC.	
		(c)	Compare NOS and DOS.	
		(d)	List types of failures in message passing system and how to overcome them.	
		(e)	Compare Bully Election Algorithm with Ring based election algorithm.	
2.	(a)			10
	4.	based distributed deadlock algorithm in detail.		10
	(b)	What is a thread and advantages of using threads. What are different mod		10
		for (	organizing threads.	
3.	(a)	Def	ine Happened-Before relationship. Explain implementation of logical	10
			eks with an example.	
	(b)	Describe .NET architecture with peat labeled diagram.		10
			600	
4.	(a)	Wh	at are the reasons for migration of code? Explain the various models	10
		for	code migration.	
	(b)	Exp	plain Distributed Approach for providing mutual exclusion.	10
5.	(a)	Exp	lain SOA lifecycle with diagram. Also state the advantages of SOA.	10
	(b)	Hov	v is sequential consistency model implemented if Replicated Migrating	10
		Blo	eks are used in distributed system for Distributed Shared Memory.	

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- 6. Write notes on following:
  - (a) CORBA Components
  - (b) Components of EJB framework.
  - (c) Explain Message Buffering in IPC
  - (d) .NET architecture