GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 640006		Date: 31-05-2013	
Time: 10 Instructions: 1. A 2. N	ttempt all questions. Iake suitable assumptions wherever necessary.	Total Marks: 70)
	Figures to the right indicate full marks.Explain following:1. Monolithic Computing2. Distributed Computing3. Parallel Computing4. Cooperative ComputingFor an HTTP session draw and explain sequence diagram.	diagram and event	07 07
Q.2 (a)	 Process A sends a single message to process B using a To do so, A issues a send operation (specifying the messame during its execution, and B issues a receive a the send operation is blocking and the receive operation. Draw and explain an event diagram (not sequence difference operation). Process-A issues its send operation prior to preceive operation. Process-B issues it's receive operation prior to send operation. 	essage as argument) operation. Suppose on is non-blocking. fagram) for each of rocess B issues it's	07
(b)	Explain the Message Passing paradigm & Mobile Ag suitable figures.	gent paradigm with	07

OR

- (b) With code snippet explain sending message to multicast group and 07 receiving message from multicast group.
- Q.3 (a) Write a Java code fragment that may appear in a main method to open a 07 datagram socket for receiving a datagram of up to 100 bytes, timing out in 5 seconds. If a timeout does occur, a message "timed out on receive" should be displayed on screen.
 - (b) Write a program which sends a message and receives a message using 07 connectionless datagram socket.

OR

- Q.3 (a) Write and explain datagram socket code fragment which will generate 07 IllegalArgumentException.
 - (b) Write and explain a simple DayTime client-server program using Stream 07 socket API.
- Q.4 (a) Explain three tier software architecture for client server and discuss its 07 advantages.
 - (b) Explain algorithms for server-side and client-side software of RMI 07 application.

Q.4	(a)	Explain steps to compiling and running a Java IDL Application.	
Q.4	(b)	How cookies can be used for transferring session state data? Draw and explain appropriate event/interaction diagram.	07
Q.5	(a)	Draw and explain basic CORBA architecture.	07
	(b)	With suitable example, explain WSDL document structure.	07
		OR	
Q.5	(a)	List and explain various CORBA object services.	07
_	(b)	Explain Shortcoming of JAX-WS 2.0 dispatching for SOA integration. Also discuss working around dispatching limitation.	07
