

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER - IV • EXAMINATION - SUMMER 2018

Subject Code: 640006 **Date: 30-May-2018 Subject Name: Distributed Computing (DC1)** Time: 10.30 am to 1.00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. (a) Attempt the following (Any 7) 07 **Q.1** WSDL stands for _ i. ii. When Communication from one process to single other process, the IPC is said to be a RPC stands for . iii. A threaded connection-oriented server is said to be _____ server. iv. SETI is an example of _____ computing. v. CORBA stands for vi. ORBD stands for _____. vii. viii. ASN stands for _____. (b) What is Distributed Computing? Explain strengths and weakness of distributed **07** Computing. (a) Explain indefinite blocking. Discuss event synchronization in the following **Q.2 07** modes of IPC. 1. Asynchronous Send and Asynchronous Receive 2. Synchronous Send and Synchronous Receive 3. Synchronous Send and Asynchronous Receive (b) With suitable example discuss the implementation of Java RMI on server. **07** (With Steps for building an RMI Application) **(b)** What is RMI? Describe java RMI Architecture. What is the role of rmiregistry? **07** (a) Explain Mobile Agent Paradigm and Collaborative Application Paradigm with 0.3 **07** suitable figures. **(b)** Explain Stream Socket API with an example. **07** (a) Explain Peer-to-Peer and Message System Paradigm with suitable figures. 0.3 **07 (b)** Explain the use of Secure Socket API with an example. 07 (a) Write and explain simple DayTimeServer Program using Datagram Socket API. **07 Q.4** (b) What is reliable multicasting? Discuss classification of reliable multicast **07** systems. OR According to three layer software architecture, explain daytime client-server **Q.4 07** using Stream Socket with UML diagram and program flow. **(b)** Explain with complete example program: How to **07** I. Join to a multicast group? II. Send and Receive a DatagramPacket to a multicast group? (a) Compare SOAP Web Services and RESTful Web Services with Example 07



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First (b) *Discuss the basic architecture of stranker its object interface with prestranker com 07 server and clients in detail with diagram.

- (a) With code fragment explain how to get EIS record from REST service without **Q.5 07** using JWS?
 - **(b)** Discuss how to transfer session state data using cookies. **07**

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