

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV EXAMINATION – WINTER - 2018

Subject Code: 2640006

Date: 29 /11/ 2018

Subject Name: Distributed Computing

Time: 10.30 am to 01.00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** State the advantages and disadvantages of Distributed Computing. **07**
(b) Explain IPC and its modes. **07**
- Q.2 (a)** Discuss various encoding standard in detail. **07**
(b) Draw and explain HTTP event diagram. **07**
- OR**
- (b)** Explain RMI and its steps for building application. **07**
- Q.3 (a)** Differentiate the Following
i. Reliable Multicast Vs Unreliable Multicast **04**
ii. Iterative Server Vs Concurrent Server **03**
(b) Explain the concept of secure socket API and SSL **07**
- OR**
- Q.3 (a)** Differentiate the Following
i. Connection-less IPC Vs Connection Oriented IPC **04**
ii. Stateful Server Vs Stateless Server **03**
(b) What is Paradigm? Explain Message and Mobile Agent Paradigm. **07**
- Q.4 (a)** Explain Datagram Sockets and its implementation in Java **07**
(b) What is Data Marshaling? Explain its Components in detail. **07**
- OR**
- Q.4 (a)** State the key methods for DatagramSocket and DatagramPacket classes available in Java API. **07**
(b) Discuss the concept of Cookies. **07**
- Q.5 (a)** Explain Client-server and RPC paradigm for Distributed Computing. **07**
(b) What is SOAP? Differentiate between SOAP web services and RESTful **07**
- OR**
- Q.5 (a)** What is WSDL? Explain role of WSDL in SOA integration. **07**
(b) Write short note on REST. **07**
