Seat No.: \_\_\_\_\_

Subject Code:3650009

Enrolment No.\_\_\_\_\_

Date:07/05/2018

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MCA - SEMESTER- V EXAMINATION - SUMMER - 2018

Subject Name: ADVANCED NETWORKING						
Time: 10:30 AM TO 01:00 PM Total Marks: 70 Instructions:						
Ins		Attempt all questions.  Make suitable assumptions wherever necessary.				
Q.1	(a) (b)	<ol> <li>Write the answer in short.</li> <li>Write the full form of OSI.</li> <li>What is Latency?</li> <li>What is maximum TLS record size?</li> <li>Which standard is used for LAN?         <ul> <li>A. IEEE 802.10</li> <li>B. IEEE 802.11</li> <li>C. IEEE 802.15</li> </ul> </li> <li>Write the full form of CORS.</li> <li>"ws" is used for encrypted text communication in Web Socket. State whether it is true or false.</li> <li>What is SRTP in WebRTC?</li> <li>Explain OSI reference model in detail.</li> </ol>	07			
Q.2	(a)	Write the answer in brief.				
	` '	1. List out and explain the components of latency.	03			
	(L)	2. Explain Head-of-line blocking in TCP connection.	04			
	<b>(b)</b>	Discuss congestion avoidance and control in TCP connection in detail.  OR	07			
	<b>(b)</b>	Explain Optimization of TCP protocol.	07			
0.2		Write the answer in brief.				
Q.3	(a)	1. List out types of wireless networks with its standards.	03			
		<ol> <li>Write down the single line definition of following:</li> </ol>	02			
		a. Origin	~_			
		b. Socket Pool				
		3. Write the equation to calculate the channel capacity provided by Claude E.	02			
	<b>(b)</b>	Shannon.  Discuss Signal power in wireless network in detail.	07			
	(D)	OR	U /			
Q.3	(a)	Explain Cross-Origin Resource Sharing in details.	07			
	<b>(b)</b>	Explain Event stream protocol in detail.	07			
<b>Q.4</b>	(a)	Write the answer in brief.				
<b>C</b>	()	1. Explain the process of streaming data with XHR.	04			
		2. Explain polling with XHR.	03			
	<b>(b)</b>	Explain 'ws' and 'wss' url schemes in WebSocket.	07			
		OR				
<b>Q.4</b>	(a)	Write the answer in brief.  1. Explain uploading data with XHR.	Λ.			
		<ol> <li>Explain uploading data with XHR.</li> <li>Explain long-polling with XHR.</li> </ol>	04 03			
	<b>(b)</b>	How to send and receive text and binary data in WebSocket.	03			
	$(\mathbf{D})$	110 W to boild and receive text and officing data in Woodbocket.	U/			

Q.5	(a)	Write the answer in brief.	
	( )	1. What is WebSocket API?	04
		2. Discuss data efficiency and compression in XHR.	03
	<b>(b)</b>	Discuss HTTP upgrade negotiation in detail.	07
		OR	
Q.5	(a)	Discuss SRTP header in details.	07
	<b>(b)</b>	Explain session description protocol in details.	07

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