Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Date: 16/11/2019

MCA - SEMESTER- V EXAMINATION – WINTER 2019 Subject Code: 4659308 Date:

	Sul	oject Name: Advanced Network	
		ne: 10:30 AM TO 01:00 PM Total Marks: 70	
	Inst	ructions:	
		1. Attempt all questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
Q.1	(a)	Do as directed.	07
		1. Name the types of wireless networks.	
		2. Write the full form of ALPN.	
		3 is the closest API to a raw network socket in the browser.	
		4. The acronym for SDP is	
		5. Which protocol is used to address the limitation of CRL mechanism?	
		6. Name the components that dictate the performance of all network traffic.	
		7. What is ACK and SYN	
	(b)	Write IN brief:	
		1. TCP V/S UDP	04
		2. Compare polling and long-polling latency	03
0.2	(a)	Write the answer in brief.	
Q.2	(a)		0.2
		1. List out and explain the components of latency.	03
	(1.)	2. Write steps through which all TCP connection begins.	04
	(b)	Discuss Cross-Origin Resource Sharing. OR	07
	(b)	Explain various traversal techniques used to establish end-to-end connectivity	07
		between the UDP peers on both side.	
Q.3	(a)	Discuss Server-Sent events. Also explain Event Stream protocol.	07
Ų.S	(b)		07
	(D)	Which protocol is used by WebRTC to describe the parameters of the peer-to-peer connection? Explain it in detail.	07
		OR	
Ω2	(0)	7 7 V	07
Q.3	(a)	Discuss WebSocket protocol. Also explain binary framing layer with diagram.	07
	(b)	Explain 802.11 standards. Also discuss 802.11b standards & features	07
ΩA	(a)	Discuss Natwork Address Translator with suitable diagram	07
Q.4	(a)	Discuss Network Address Translator with suitable diagram. Write the answer in brief.	U/
	(b)		Ω4
		1. Discuss cell-breathing and near-far effect in day-to-day situations.	04
		2. What is last mile latency? OR	03
0.4	(0)		
Q.4	(a)	Write the answer in brief.	Ω.
		1. What do you mean by Head-of-Line blocking in TCP?	04
		2. What is the relevance of Certificate Revocation List during the	03
	. .	communication?	
	(b)	Discuss STUN and TURN protocols. Also explain how ICE helps these two protocols	07
		for connectivity.	
Q.5	(a)	Explain all the fields of transport layer security record protocol with diagram.	07
_	(b)	Differentiate SRTP and SRTCP.	07
		OR	
Q.5	(a)	Draw and explain ICE agent connectivity states and transitions	07
~	(b)	Explain chain of trust and certificate authorities w.r.t. TLS.	07
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