Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER	- 5 •	EXAMINATION	- SUMMER	2018
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Subject Code: 650010	Date: 09-May-2018
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Subject Name: Advanced Networking (AN)

Time: 10.30 am to 1.00 pm Total Marks: 70

Instructions:

(b)

1.	Attempt	all d	questions.
1.	Aucinpu	an c	acsuons.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

 2. Explain Unicast, Multicast and Broadcast with example. Q.2 (a) Explain IPv4 Forwarding Algorithm and Compare Direct and Indirect Delivery of packet. (b) Explain ICMP in detail with any three message formats and its explanation. 	7
 What is the difference between ARP and RARP? What is the use of Loopback Address in IPv4? What is the major difference between Connection Oriented and Connection Less Delivery at Transport Layer? Give the Full form of MIME. Write a full form of TTL and why it is required in IPv4 packet? Answer the Following Questions: Compare Classfull and Classless Addressing Scheme. Explain Unicast, Multicast and Broadcast with example. Q.2 (a) Explain IPv4 Forwarding Algorithm and Compare Direct and Indirect Delivery of packet. (b) Explain ICMP in detail with any three message formats and its explanation. 	
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OR	7
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Q.3 (a) Explain Proxy ARP with its advantages and disadvantages.	7
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OR	
Q.3 (a) Explain mail forwarding process with SMTP.	7
(b) Explain Anonymous FTP and following terms: SSL-FTP, SFTP and SCP 0	7
Q.4 (a) Explain characteristics of HTTP.	7
	7
OR	
Q.4 (a) Explain HTTP persistent connection with its advantages and disadvantages. 0	7
(b) Write a short note on Firewall.	7
Q.5 (a) Explain three way handshaking mechanism used in TCP for Connection 0 Establishment process.	7
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Explain MIME extensions for Non-ASCII data.

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