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

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

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

MCA - SEMESTER- IV EXAMINATION - WINTER - 2017

Subject Code: 640001 Date: 28-12-2 Subject Name: Fundamental of Networking			017
Tiı	me:0: tructio 1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.  Define the following.  1. Piggybacking 2. Baud Rate 3. Bandwidth 4. Wireless Communication 5. Cryptography 6. Handoff 7. DNS	
Q.1	(a) (b)	667	07 04 03
Q.2	(a) (b)	Explain the terms: Hub, Switch, Repeaters, Router & Gateways.  Explain Go back n protocol with its merit and demerits.  OR	07 07
	<b>(b)</b>	Write a note on Error Correction and Error Detection with examples.	07
Q.3	(a) (b)	Explain Selective Repeat Protocol with its advantage and disadvantages.  Write a note on Binary Exponential Back-off Algorithm.  OR	07 07
Q.3	(a) (b)	State the difference between Selective Repeat and Go back n protocol. Explain access point primitives. Explain types of frame in network.	07 07
Q.4	(a) (b)	Discuss Wireless Broadband with its sub layers.  1. Define: Congestion Control.  2. Compare connection oriented and connectionless services.  OR	07 03 04
Q.4	(a) (b)	<ol> <li>Write a note on Cable Modem.</li> <li>Explain working of Active Repeaters and Passive Interfaces.</li> <li>Discuss OSI Reference Model in detail.</li> </ol>	04 03 07
Q.5	(a) (b)	<ol> <li>Explain working application of S-BOX.</li> <li>What is Milk and Wine policy in load shedding during congestion control?</li> <li>Discuss Digital Signature using Public Key Cryptography.</li> </ol> OR	04 03 07
Q.5	(a) (b)	Discuss SMTP with its advantage and disadvantages. List and explain Cipher modes in detail.	07 07

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