Seat No.:		Enrolment No
	GUJARAT TECHNOLOGICAI	
G	BE – SEMESTER V • EXAMINATION	
0	de: 150702 ame: Computer Network	Date: 12-01-2013
Time: 02:30 pm to 05:00 pm		Total Marks: 70
Instruction	ns:	
2. N	Attempt all questions. Jake suitable assumptions wherever necessa Yigures to the right indicate full marks.	ı ry.
Q.1 (a)	 Explain following transmission media supported, Throughput measured and Distar Fiber optics Unshielded twisted pair Radio waves 	
(b)) Explain the Nyquist and Shannon data noiseless and noisy channel respectively.	rate capacity theory for

(c) Explain the at least three basic network criteria that are important for 03 the good functioning of the overall network.

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(a)	Explain a protocol Using Go Back N strategy using pipelining and	07
	show the scenario in the case of	
	• when receiver' window size is 1 and	
	• when received window size is large	
(b)	Explain the Bit-Mer protocol with suitable example.	07
	OR	
(b)	Explain the Acceptive tree walk protocol with suitable example.	07
	(b)	 when receiver' window size is 1 and when receiver window size is large (b) Explain the Bit-Map protocol with suitable example.

- Q.3 What is count-to-Infinity problem? Explain it with example 07 (a) **(b)** Explain the Link state routing protocol with suitable example. 07 OR Q.3 (a) Tiscuss and dis the congestion prevention policies at data link, 07 network and transport layers that can affect the congestion.
 - (b) Explain Load shedding and Jitter control strategies to handle the 07 congestion.

Q.4 (a) Explain the Mobile-IP. 07 **(b)** Compare the IPv4 and IPv6 header. 07 OR Q.4 07 (a) Explain the IP addressing scheme in detail. (b) Explain TCP header fields. **Q.4** 07

Q.5 07 (a) Explain the Domain Name System. Explain the basic five service primitives of the transport layer **(b)** 07 protocol. OR

(a) Explain the basic functions of the e-mail system. Q.5 07 (b) Explain the architectural overview of the world wide web. 07

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