Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. Vth Semester–Examination – Nov-Dec- 2011

Subject code:150702

Subject Name: Computer Network

Time: 02:30 pm - 05:30 pm Date:24/11/2011 Total Marks: 70

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- Attempt all questions.
 Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(-)	What is OCI as a lat 2 Dans Discours and Frentain Discours I Date links and	_
	(a)	What is OSI model? Draw Diagram and Explain Physical, Data link and Network layer with its functions.	5
	(b)	Discuss different types of guided and unguided media used to transmit	5
	(-)	data in the network.	
	(c)	Explain the terms: LAN, MAN, WAN, Internet	4
Q.2			
~·-	(a)	Explain HDLC.	07
	(b)	Explain Sliding window protocol using GO back to N.	07
	. ,	OR	
	(b)	Explain STOP and Wait Protocol.	07
Q.3			
	(a)	Design issues of Network Layer.	5
	(b)	Give ways to establish effective and Efficient network	5
	(c)	Differentiate: Router and Switch	4
		OR	
Q.3	()	D : : (D / 1:11	_
	(a)	Design issues of Data link Layer.	5 5
	(b)	Explain Advantages and Usage of Network What is topology? Give different type of topology and its use	5 4
	(c)	what is topology? Give different type of topology and its use	4
Q.4			
~··	(a)	Explain Distance Vector Routing Algorithm	5
	(b)	Compare: Ethernet and Fast Ethernet	5
	(c)	Explain Multicasting	4
	. ,	OR	
Q. 4			
	(a)	Explain Shortest Path Routing Algorithm	5
	(b)	Explain: MAC address and IP address	5
	(c)	What is Gateway? How it works?	4
Q.5			
Ų.S	(a)	Compare: TCP and UDP	5
	(b)	Explain: DNS and its advantages	5
	(c)	What is E-mail? How it works? Which protocol it uses?	4
	(0)	OR	•
Q.5			
	(a)	Compare: IPv4 and IPv6	5
	(b)	Explain WWW and HTTP	5
	(c)	What is tunneling? Explain	4
