END LERM EXAMINATION

SIXTH SEMESTER [B.TECH/M.TECH] MAY-JUNE 2015

pape	r Code: IT-304	Subject: Computer Networks
Nime	; 3 Hours	Maximum Marks: 60
Note: Attempt any five questions including Q.no.1 which is compulsory. Select one questions from each Unit.		
Q1	 (a) What is the significance of twisting in the light of the IP datagram head datagram's endlessly through routing accomplish that? (c) What is subnet masking? Discuss. (d) What is the difference between packet (e) What is early token release? (f) Explain the three types of frames in HI (g) How is the minimum size of the Etherelated to slot time? (h) Compare the data rates for Standard Ethernet, and Ten-Gigabit Ethernet. (i) Define slow start. 	der is used to avoid forwarding loop? How is that header used to (2) (2) switching and circuit switching?(2) (2) (2) (2) (2) (2) (3) Ernet frame determined? How is it (3)
Q2	(a) Explain the various layers present in	TCD/ID reference model and their
7 2	functions. (b) Explain the three types of transmission	(7)
Q3	Explain the difference between guided media and unguided media. Briefly explain any three methods used for data transmission using guided media and any two methods used for data transmission using unguided media. (10)	
	Unit-II	
Q4	With an example, illustrate how Cyclic decoder will work.	Redundancy Check encoder and (10)
Q5	With the help of packet sequence (timin go-back-n ARQ when (i) Data packet (ii) ACK packet (iii) NAK pa	-
	Unit-III	
Q6	(a) Explain the addressing mechanism of (b) Explain in detail the problems associated	
Q7	(a) Compare and Contrast CSMA/CD with (b) Explain the loop problem associated w	
	Unit-IV	
Q8	 (a) What are the differences between addressing in IPv4? (b) Find the netid and hostid of the follow (i) 114.34.2.8 (ii) 208.34.54.12 (c) A block of address is granted to a staddress of one host is 182.44.82.16, last address in the network. 	ing IP addresses: (2) mall organization. We know the IP
Q9	Explain the principles of congestion contr	rol in TCP. (10)

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