Reg	istrat	ion No. :										
												Tech 6 4302
	Fifth Semester Back Examination - 2014											
DATA COMMUNICATION AND COMPUTER NETWORK												
BRANCH (S) : CSE, IT												
QUESTION CODE: L 229												
Time: 3 Hours												
	Ans	wer Ques The	tion No. <b>1</b> figures in	which the rig	is com ht-han	pulsory d marg	and in ind	any <b>f</b> licate	ive fr mark	om th	ne rest	t.
1.	Ans	wer the fol	lowing qu	estion	s:		1	€.T., G	TUST			2×10
	(a)	Define a N	Network.									
	(b)	What are	the limitati	ons of	star to	pology	?					
	(c)	What is L	atency in a	a netw	ork?							
	(d)	What is a	domain na	ame?								
	(e)	List three	technique	s used	l for dig	ital-to-c	digital	data	conve	ersior	١.	
	(f)	-	olar encod									
	(g)		requency									
	(h)		arallel trar									
	(i)		rect seque		_	pectrur	n.					
	(j)		lamming d									_
2.	(a)		ne advanta		nd disa	dvanta	ges of	tne to	Ollowi	ng:		5
			ical Fibers									
		` '	lio waves.					l - O				5
	(b)		he role of s						0000	ohon	nol	5
3.	(a)	_	sh betwee									
	(b)	) Using High Density Bipolar-3, encode the bit stream 10000000000100							00100.			

Assume that the number of 1s so far is odd and the first 1 is positive.

4.	(a)	Draw OSI reference model and explain any two layer.	5
	(b)	Explain various class of IP- addressing.	5
5.	(a)	Distinguish between synchronous and statistical TDM.	5
	(b)	Fid the checksum of sender and receiver site for a text of 8 charact	ters
		("couriers"). [Hint: use ASCII to change each byte to a 2-d	ligit
		hexadecimal number]	5
6.	(a)	Briefly describe the services provided by the data link layer.	5
	(b)	Define piggybacking and its usefulness.	5
7.	(a)	What is Multiple Accesses Protocol ? Explain any one category of MAF	2. 5
	(b)	State and explain features of IEEE 802.11.	5
8.	Writ		×2
	(a)	Quadrature Phase Shift Keying (QPSK)	
	(b)	TCP service for transport layer	
	(c)	Client Server Model	
	(d)	Token bucket.	