Total 1	No.	of Questions : 6] SEAT No. :
P509	91	[Total No. of Pages :2
		T.E./Insem 640
		T.E. (Computer Engineering)
		COMPUTER NETWORK
		(2015 Pattern) (Semester-I)
Time:		
Instru	ıctio	ons to the candidates:
		 Attempt Q.1 or Q.2, Q.3 or Q.4 & Q.5 or Q.6. Neat diagram must be drawn wherever necessary.
		3) Figure to the right indicate full marks.
		4) Assume suitable data, if necessary.
01)	`	
Q 1) a	a)	What are the design issues of layers? Explain it. [5]
ł	b)	What are the different network devices? Explain difference between switch and hub. [5]
	X	OR
Q2) a	a)	What are the transmission techniques used by 802.11 to send a MAC
		frame from one station to another? Explain two of them. [5]
ł	b)	What is line encoding? Give the Manchester line code and differential
		Manchester code for the bit sequence: 1100110 [5]
Q 3) a	a)	What is need of framing? What are the different techniques of framing?
		Explain any two. [5]
ł	b)	The data word 1101011011 is to be sent using generator polynomial
		x^4+x+1 , Use CRC to compute the code word at the sender side. [5]

OR

Explain Go back N Sliding window protocol with example. **Q4)** a) **[5]**

Explain bit oriented protocol for communication over point to point and b) multipoint link. [5]

P.T.O.

Q5)	a)	Draw and explain frame format of 802.16 standard.	5]
	b)	Consider building a CSMA/CD network running at 1 Gbps over a 1k cable with no repeaters. The signal speed in the cable is 200000km/se What is the minimum frame size?	
		OR	
Q6)	a)	State the difference between static and dynamic channel allocation? Git two examples for each?	ve 5]
	b)	Explain working of CSMA/CA with the help of flow diagram.	5]
	40	J. S.	
		em 640	
		CRO BOTO	
T F	DT.	-2-	
I.L.	/Inse	em 640	