Total	No.	of Qu	nestions : 6]	SEAT No. :
P71			Oct./TE/Insem 1	90 [Total No. of Pages : 2
			T.E. (Computer)	
			COMPUTER NETWO	
			(2015 Course) (Semes	ter - I)
Tima	. 1 L	Iouul	6) 6?	May Marks · 20
Time . Instru		_	the candidates:	[Max. Marks : 30
			Diagrams must be drawn wherever necess	sary.
2			res to the right side indicate full marks.	
3			f Calculator is allowed.	
4	9 .	Assur	ne suitable data, if necessary.	90
			6.	
Q1)	a)	Dra	WTCP/IP reference model and Write	e function of each layer. [6]
~ /				
	b)	For	the bit sequence 10000101111 draw	the waveform for [4]
		i)	Manchester Encoding	<i>o</i> .
		,		
		ii)	Differential Manchester Encoding	
			OR	
Q2)	a)	Exp	plain in brief: FHSS and DSSS.	[4]
	b)	Wh	at are different types of topology? Ex	xplain any one.
			8.	
Q3)	a)	Exp	plain in detail working of PPP with st	ate transition diagram? [6]
~	1 \	_	×,	
	b)	GIV	ven the dataword 1001000 and divisor	r 1011 [4]
		i)	Show the generation of the codew	vord at the sender's site (using
			binary division)	
		ii)	Show the checking of the codewor	A at the reciver site (Assume no
		11)	error)	at the cerver site (Assume no
			OR	6.
			9	
				·

Q4)	a)	Compare and contrast the Go-Back N ARQ protocol with Selective Repeat ARQ.	e- 6]				
	b)	In a Stop-and-Wait system, the bandwidth of the line is 1 Mbps, and bit takes 20 milliseconds to make a round trip. What is the bandwidth delay product? If the system data packets are 1,000 bits in length, who is the utilization percentage of the link?	1-				
Q5)	a) Draw 802.11 frame format and explain addressing mechanism in detail						
	b) Measurement of a slotted ALOHA channel with an infinite number						
			4]				
		i) What is the channel load?					
		i) What is the channel load?ii) What is the throughput?					
		iii) Is the channel underload or overloaded?					
OR OR							
Q6)	a)	Explain MAC sublayer (DCF) in wireless LAN. [4	4]				
	b)	Explain CSMA/CD flowchart [4	4]				
	c)	What are common implementations of Fast Ethernet (100 Mbps) [2]	2] _				
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