Registra	ation no:												
Total Nเ	ges: <b>02</b>				210			210			210	<u>B.Tech</u> PEEC4304	
6 <sup>th</sup> Semester Regular / Back Examination 2015-16 COMPUTER NETWORK AND DATA COMMUNICATION BRANCH: AEIE, BIOMED, ECE, EEE, EIE, ELECTRICAL, ETC, IEE Time: 3 Hours													
210	210		2	0		arks F·W	_		210	)		210	
Q.CODE: W577  Answer Question No.1 which is compulsory and any five from the rest.													
The figures in the right hand margin indicate marks.													
Q1 <sub>210</sub> a)	modes?								(2 x 10)				
b) c) d)	Define Piggybacking and its usefulness.  A noiseless channel with a bandwidth of 4000 Hz is transmitting a signal with four signal levels. Find the maximum bit rate.  Differentiate between circuit switching and packet switching.												
e) <sup>210</sup> f)	What is Hamming distance? Find the hamming distance between 10101 and 10010.  Differentiate between sub-netting and super-netting.												
g) h) i) j)	What is the   What is a prodictinguish to Differentiate	oxy se betwee	erver? en TCI	How is P and L	it rela JDP.				addre	ess.			
<b>Q2</b> a)	Draw the O		del ar		uss t	he la	yer f	uncti	ionali	ities (	of the	• OSI	(5)
b)	Given a bir using NRZ schemes.	nary d	ata st	ream o									(5)
Q3 a)	What do you	u meai	n by n	nultiple	acce	ss? E	Briefly	/ exp	lain 1	the o	perati	on of	(5)
<sub>210</sub> <b>b)</b>	Describe the Back-N ARC									e be	tweer	າ <b>Go-</b>	(5)

**Q4** a) For a given dataword 1010011010 and divisor  $x^4+x^2+x+1$ , generate the

Guided Media.

codeword using CRC. Verify the generated codeword at the receiver

b) What do you mean by Guided Media? Discuss briefly different types of

(5)

(5)

Q5	a)	Explain Time Division Multiplexing Technique and compare it with Frequency Division Multiplexing.	(5)					
210	b)	What do you mean by HDLC? Define different HDLC frame formats.	(5)					
Q6	a)	Discuss the datagram format of IPv4 Protocol. Give the advantages of IPv6 over IPv4.						
	b)		(5)					
<b>Q7</b>	a)	What is Congestion? Explain the principle and prevention policies of congestion control.	(5)					
	b)	How does the Frame Relay differ from ATM?	(5)					
<b>Q8</b>	a) b) c) d)	Write short notes on any two: Domain Name System Channelization IEEE 802.11 SMTP 210 210 210 210 210	(5 x 2)					