Reg	istra	ation No:												
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Tota	al Nu	ımber of Paç	ges: 2	210			210			210			210	<u>B.Tech</u> PCCS4302
			emester COMMU	NIC	ATIC		ND	CON	/IPU					
210		210		210	Ма	ne: 3 x Ma COD	arks	: 70		210			210	
Α	nsv	ver Questic	on No.1	whic	•				y an	d aı	าy fi	ve fi	rom th	ne rest.
		The fig	gures in	the	righ	t ha	nd r	marg	gin i	ndic	ate	mar	ks.	
04		Anguar the following greations:									(0 40)			
<b>Q1</b> <sub>210</sub>	a)	Answer the following questions:  A signal has Eight data levels with pulse duration of 2ms. What are its Pulse rate and Bit rate?								are its	(2 x 10)			
	b)	Distinguish between 1-persistent and P-persistent strategies.												
	c)	What is traffic shaping? Name two methods to shape the traffic.												
	d)	Distinguish between virtual circuit approach and datagram approach of packet switching.												
210	e)	What is the purpose of Jam signal in CSMA/CD?							210					
	f)	Suppose we want to digitize the human voice (0 to 4000 Hz). What is the bit rate assuming 10 bits per sample?										/hat is		
210	g)	Distinguish transmission	between modes.	n S	Synch	irono	us	and	As	synch	rono	us	serial	
	h)	Distinguish b	Distinguish between Polling and Selecting.											
	i)	What is the difference between recursive resolution and iterative resolution of names in case of DNS?							erative					
	j)	How does a UNI differ from an NNI in ATM?												
<b>Q2</b>	a)	What do you mean by Hamming distance? Using Hamming Encoding Algorithm, construct the Hamming code for the bit sequence 1001010.							_	(5)				
	b)	Discuss various IP address classes according to classful addressing. Distinguish between unicast, multicast and broadcast address.										essing.	(5)	
Q3	a)	Explain CSN differ from C	•		ıre w	ith a	suita	ble fl	ow d	liagra	am. H	low c	does it	(5)
210	b)	Explain the vits advantag							o-Ba	ck-N	ARG	). Wh	at are	(5)

Q4	a)	Give an account of the frame format of U-Frame in HDLC protocol, describing the function of each field.	(5)
210	b)	What do you mean by an Error? What are various types of errors you know? Explain any one of the error detection mechanisms with suitable example.	(5)
Q5	a)	Discuss various types of topologies with advantages and disadvantages of each one.	(5)
210	b)	What do you mean by Quality of service? What are the techniques used to improve QOS? Explain any one.	(5)
Q6	a)	Explain the working principle of connection oriented Concurrent server with suitable client and server algorithms.	(5)
210	b)	Discuss the Frequency Division Multiplexing technique. How it differs from Time Division Multiplexing?	(5)
Q7	a)	What do you mean by Block Coding? Discuss the major steps used in block coding.	(5)
	b)	Mention the difference between Traditional Ethernet and Fast Ethernet.  Discuss various sub layers in Physical layer of a Traditional Ethernet.	(5)
210		210 210 210 210 210	
Q8		Write short answer on any TWO:	(5 x 2)
	a)	IPV6	
	b)	Transmission Impairment	
	c)	Point-to-Point Protocol	
210	d)	Sampling, 210 210 210 210	