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Fifth Semester B.E. Degree Examination, May/June 2010 Computer Networks - I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

		PART – A								
1	a.									
2		Explain the transmission modes. We want to digitalize the human voice. What is the bit rate, assuming 8 bits per sample (0)								
		Discuss 8 B/10 B coding scheme. Explain the delta modulation.	(04 Marks) (06 Marks)							
3	a.	An analog signal has a bit rate of 8000 bps and a baud rate of 1000 baud. How elements are carried by each signal element? How many signal elements do we ne	_							
	b. c.	Define synchronous TDM. Explain the amplitude modulation.	(12 Marks) (04 Marks)							
4	b.	Briefly explain twisted pair cable and optical fibre cable, with their applications. Explain the check sum, with an example. Explain the types of error.	(10 Marks) (06 Marks) (04 Marks)							
	PART – B									
5		Explain the selective repeat and stop and wait ARQ. Discuss HDLC protocol.	(10 Marks) (10 Marks)							
6		Explain: i) CSMA ii) CSMA/CD. What do you mean by channelization? Explain the protocols used for channelization.	(10 Marks) on. (10 Marks)							
7		Explain the IEEE 802.11 architecture. How does a virtual LAN helpful in providing (security and reduce the network tra	(08 Marks) ffic)? (08 Marks)							
	C.	Explain the bridges.	(04 Marks)							
8	b.	Explain the SONET/SDH layers and frames. Find the data rate and duration of an STS-1 signal. Explain the AMPS.	(12 Marks) (04 Marks) (04 Marks)							

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