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## Fifth Semester B.E. Degree Examination, June-July 2009 Computer Networks - I

Time: 3 hrs.

Max. Marks:100

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

questions from each part.	
	F1
PART - A	1
	06 Marks)
1 a. With heat diagram - 1	06 Marks)
i) Physical layer; ii) Data link layer; iii) Network tayer.	(08 Marks) (06 Marks)
c ammanission impairments.	(06 Marks)
<ul> <li>b. Describe with neat waveform any two parts.</li> <li>c. Give data rate formula suggested by Nyquist and Shannon. Low pass communications.</li> <li>describe with neat waveform any two parts.</li> <li>describe with neat waveform</li></ul>	cation has bit rate is (08 Marks)
attainable using 8-level pulses:  3 a. With neat waveform, explain three methods of digital to analog conversion. Draw	(06 Marks)
1 4 11 14 14 14 14	(06 Marks)
with input data 110100.  b. What is multiplexing? With neat diagram explain FDM.  b. What is multiplexing? With neat diagram explain FDM.	
b. What is multiplexing? With neat diagram explain FDM.  c. What is TDM? Four sources create 250 characters per second. The frame co	data rate of
c. What is TDM? Four sources create 250 characters per second. The land of the character from each source and one extra bit for synchronization. Find: i) The character from each source and one extra bit for synchronization. The frame rate; in	v) Duration
AND THE CONTRACT OF THE CONTRA	(08 Marks)
of output frame; v) Frame size in bits: vi) Data rate of link.	
<ul> <li>a. Describe the physical and transmission characteristic of following: <ol> <li>Twisted pair cable; ii) Fiber optic cable.</li> <li>What is hamming distance? Explain simple parity check code C (5, 4) with d m many bits can be corrected?</li> <li>What is CRC? If the generating polynomial for CRC code is x<sup>4</sup> + x<sup>3</sup> + 1 and m is 11110000, determine check bits and coded word.</li> </ol> </li> </ul>	(06 Marks) in = 2. How (06 Marks) essage word (08 Marks)
PART - B	(06 Marks)
5 a. Differentiate between character oriented and bit oriented format for framing.	. VE
b. Explain salient features of	(08 Marks)
and - wait protocol, ii) Stop	(06 Marks)
c. Explain briefly about point-to-point protocol.	
Dandom access protocols.	
6 a. What is Random Access? Explain following Random access protocols.	(06 Marks)
Slotted ALOHA; 11) CSIVIA / CD.	(06 Marks)
b. What is channelization? Explain CDMA.  b. What is channelization? Explain CDMA.  MAC frame. What are salient fee	atures of fast
<ul> <li>b. What is channelization? Explain CDMA.</li> <li>c. Describe frame format for IEEE 802.3 MAC frame. What are salient features.</li> </ul>	(08 Marks)
Ethernet?	(06 Marks)
7 a. Describe the MAC layers in IEEE 802.11 standard.	(06 Marks)
<ol> <li>Describe the MAC tayors in the second of the layers.</li> <li>In brief explain blue tooth layers.</li> </ol> Bridges Routers and Gateways.	(08 Marks)
a differences between Repedicis, Dileges,	277
c. Bring out differences between	(06 Marks)
8 a. Explain SONET multiplexing.	(06 Marks)
<ul> <li>a. Explain SONET manipress.</li> <li>b. With neat diagram describe ATM architecture.</li> <li>b. With neat diagram describe ATM architecture.</li> </ul>	(08 Marks)
Discourse CONFT STS - I frame without I ma date	Assessment Provide
c. Discuss Solver 3.	