M.E. First Semester (Information Technology) (Full Time) (C.G.S.)

13420: Net Centric Computing: 1 NMEF 3

P. Pages: 2 Time: Three Hours		1 TO SAI BERNA HAVE ANN AND BEN	AU - 3303 Max. Marks : 80	
	Not	tes: 1. Assume suitable data wherever necessary.		
1.	a)	A communication channel must support upto a 10 kbps data rate. The channel has to noise ratio of 50 decibles. What is the maximum bandwidth in hertz for the ch		
	b)	Explain the following terms. i) Network Addressing. ii) Routing iii) Reliability.	6	
		OR		
2.	a)	A line has signal to noise ratio of 1000 and a bandwidth of 4000 kHz. What is the data rate supported by this Line.	maximum 8	
	b)	Differentiate between circuit switching and packet switching.	6	
3.		Assume a CRC generator polynomial of $x^5 + x^4 + x^2 + 1$ is used to provide error Compute the bit stream that will be transmitted if a message 1010001101 is sent. A that the frame received at the receiving end is valid or not.	-	
		OR		
4.	a)	What is flow control? What is the effect of flow control on network?	7	
	b)	Ethernet 802.3 is based on 1 persistent CSMA/CD. Explain what this means.	6	
5.	a)	Give the TCP frame format and also explain the fields in it.	7	
	b)	Explain the difference among Layer 2, Layer 3 and Layer 4 switching.	6	
		OR		
6.	a)	Explain the manner in which internet working is accomplished at each of the bott layers of the OSI model.	tom three 7	
	b)	Explain What is VPN and its strategies.	6	
7.	a)	Explain the manner in which reservation and priority operate within a token ring	network. 7	
	b)	Explain in brief the major differences between Ethernet V.2.0 and IEEE 802.3.	7	
		OR		

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8.	a)	Compare and contrast i) Active monitor and standby monitors. ii) Token ring reservation and priority bits.	8			
	b)	Explain full duplex ethernet and Gigabit ethernet.	6			
9.	a)	Explain frame format of ISDN's Link Access protocol-D channel.	7			
	b)	Explain how frame relay handles congestion control.	6			
OR						
10.	a)	In what ways does FDDI's counter rotating rings promote network reliability.	7			
	b)	Compare and contrast PVC and SVC.	6			
11.	a)	Explain with diagram ATM cells. Also give advantages.	7			
	b)	Compare and contrast UMDS and frame relay.	6			
OR						
12.	a)	What is SIP level 3 PDU?	7			
	b)	Explain in detail DSL services.	6			
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