P1158

Time . 3 Hours!

## [4066] - 304

## S.Y. M.C.A. (Engg. Faculty) COMPUTER COMMUNICATIONS & NETWORKS (2008 Pattern) (610904) (Sem. - III)

Instr	uction	ns to the candidates:	luins.
Insti	1)	Answers to the two sections should be written in separate books.	
	2)	Assume suitable data, wherever necessary.	
3)		Neat diagrams must be drawn wherever necessary.	
	4)	Figures to the right indicate full marks.	
•		SECTION - I	
Q1)	a)	Write Difference between Synchronous & Asynchronous trans- with example.	missior
	b)	What are different types of Satellite? Explain with example.	[6]
		OR	
Q2)	a)	Explain Fiber Optic media.	[6]
	b)	Write difference between FDM, TDM, WDM.	[6]
Q3)	a)	Calculate CRC if the data to be sent is 100100.	
		The generator polynomial is $G(x)=x^3+x^2+1$ .	[6]
	b)	Explain network topologies with suitable example.	[6]
		OR I promise some of the second	· 60 特
Q4)	a)	Discuss HDLC protocol specification with reference to the follow	/ing:[6]
		i) Type of Stations.	
		ii) Configuration.	
		iii) Type of frames.	
	b)	Explain OSI Protocol Stack.	[6]
25)	a)	Explain Bluetooth architecture with neat diagram.	[6]
	b)	Explain CSMA with CSMA/CD technique.	[5]

Q6)	a)	Explain working of WDMA technique.	[6]
	b)	Discuss VLAN with neat diagram, state their advantage over the LAN.	regular [5]
		SECTION - II	
Q7)	a)	Discuss the parameter of quality of service in network layer.	[6]
2.7	b)	Explain Leaky bucket algorithm.	[5]
	0,	OR	[o]
Q8)	a)	Explain IP protocol with neat diagram.	[6]
2,	b)	What is meant by congestion? How to prevent it?	[5]
Q9)	a)	Explain difference between TCP & UDP.	[6]
	b)	How is connection established in TCP? Explain two army probl	em.[6]
		OR	
Q10)	a)	Explain timer management in TCP.	[6]
	b)	What is silly window syndrome? How to overcome it.	[6]
Q11)	a)	Explain Email Architecture with protocols.	[6]
	b)	Write short note on:	
		i) IMAP ii) HTTP	[6]
		OR West Annual Control	
Q12)	a)	What is difference between FTP & TFTP.	[6]
	b)	Explain DNS with different types of Domain.	[6]

