B.E. (Computer Engineering) Third Semester (C.B.S.) Introduction to Computer Network

	Pages : ne : Thr	2 ee Hour		J/KW/17/4391 Max. Marks : 80
	Notes	s: 1. 2. 3. 4. 5. 6. 7.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions.	
1.	a)	What a	are the different types of Network topologies? Explain in detail.	6
	b)	Explain	n various layers of OSI reference model.	7
			OR	
2.	a)	Explain	n design issues for the layers.	6
	b)		short notes on: rotocol ii) Network criteria	7
3.	a)	Explain	n how signals travel in ground propagation, sky propagation and line of signation.	ght 7
	b)	Explain	n the twisted-pair cable in detail.	6
			OR	
4.	a)	Write s	short note on MODEM.	6
	b)	Explain	n circuit switching and packet switching networks.	7
5.	a)	Explain	n CSMA / CA random access protocol in detail.	7
	b)	Explain	n the need of byte stuffing and bit stuffing with example.	6
			OR	
6.	a)	Explain	n stop and wait protocol in detail.	5
	b)	Write s	short note on any two.	8
		i) IE	EEE 802.5 ethernet frame format.	
		ii) G	Go-back n ARQ system.	
		iii) S	liding window protocol.	

7.	a)	What is congestion? Explain open loop and closed loop congestion control.			
	b)	What is distance vector? Explain distance vector routing algorithm.	7		
		OR			
8.	a)	Explain link state Routing algorithm.	7		
	b)	Explain various classes of IPV4 addresses.	7		
9.	a)	Explain the Reliable and unreliable services in detail.	7		
	b)	Explain TCP segment header in detail.	7		
		OR			
10.	a)	Write short note on socket.	5		
	b)	Write short note on socket. Explain TCP transmission policy. Short note on silly window syndrome. Explain design issues for the session layer. Define cryptography. Explain its types with advantages and disadvantages.	5		
	c)	Short note on silly window syndrome.	4		
11.	a)	Explain design issues for the session layer.	6		
	b)	Define cryptography. Explain its types with advantages and disadvantages.	7		
		OR			
12.	a)	Explain Browser architecture.	7		
	b)	Write short note on:	6		
		Write short note on: i) Electronic mail ii) Digital signature iii) Authentication of the continuous structure o			
		ii) Digital signature and in the control of the con			
		iii) Authentication			
