B.E. (Computer Science Engineering) Sixth Semester (C.B.S.) Computer Networks

P. Pages: 2 Time: Three Hours				I / KS / 19/3493 I ax. Marks : 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9.	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. Illustrate your answers whenever necessary with the help of neat sketches. Use of non programmable calculator is permitted.		
1.	a)	What are	e different network criteria ? Explain.	5	
	b)	Draw an	nd explain OSI reference model.	8	
			OR		
2.	a)	Differen	atiate between OSI and TCP/IP model.	6	
	b)	How can	n computer networks be classified based on transmission technology and sc	ales. 7	
3.	a)	List and	explain different framing methods with example.	7	
	b)	Explain	stop and wait ARQ protocol.	6	
			OR		
4.	a)	Differen	ntiate between Go-back N ARQ and selective Repeat ARQ.	6	
	b)	What ar	e the 3 kinds of frames in HDLC protocol? Explain each one in detail.	7	
5.	a)	Discuss	about pure ALOHA and slotted ALOHA.	7	
	b)	Explain	Reservation and polling with suitable explain.	6	
			OR		
6.	a)	Write do	own the difference between Traditional Ethernet and fast Ethernet.	6	
	b)	Write sh	nort note on LCP and NCP.	7	

7.	a)	Describe shortest path algorithm.	7
	b)	Explain static and dynamic routing with suitable example.	7
		OR	
8.		Write short note on:	14
		i) Mobile routing basic algorithm.	
		ii) Distance vector routing.	
		iii) Flooding.	
9.	a)	Explain Leaky bucket algorithm and Token bucket algorithm with proper diagram.	10
	b)	Explain ARP and RARP protocol.	4
		OR	
10.	a)	Compare IPV ₄ and IPV ₆ .	4
	b)	Explain IP and ICMP protocol.	4
	c)	Describe how chock packet algorithm helps in congestion control.	6
11.	a)	Draw and explain Bluetooth architecture.	7
	b)	Explain in brief DSL technology.	6
		OR	
12.		Write short note on any three.	13
		i) ATM layers.	5
		ii) SONET	5
		iii) Wireless LAN 802.11	5
		iv) VLAN	3
