http://www.rtmnuonline.com B.E. (Computer Science Engineering) Sixth Semester (C.B.S.) Computer Networks

P. Pages : 2		* 0 5 9 0 *	NJR/KS/18/4548 Max. Marks : 80
Notes	5: 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 skillustrate your answers whenever necessary with the help of neat skillustrate.	ketches.
1. a)	What are	e different types of service primitives? Explain with example?	5
b)		ways in which OSI Reference model and TCP/IP reference models two ways in which they differ. OR	are same. 9
2. a)	i) Con ii) Rod iii) Into iv) Can v) Pro vi) Err vii) Me viii) Log ix) Pro	me following to one or many layers of OSI model. mmunication directly with user application. ute Determination. erface to Transmission Media. rrying frames between adjacent nodes. seess to process delivery. or correction and retransmission. echanical, Electrical and Function interface. gin and log out procedure. ovide access to end user. ovide user services such as email and file transfer.	
b)		tiate between computer Networks and distributed system.	4
3. a)	Explain	STOP and WAIT ARQ.	6
b)	What are	e the 3 kinds of frames in HDLC Protocol? Explain each one in deta	ail. 7
		OR	
4. a)	A bit st	ream 10011101 is transmitted using the standard CRC method.	The generator 8
\bigcirc \triangle		nial is $x^3 + 1$. Show the actual bit string transmitted, suppose the thickness during transmission. Show that this error is detected at the re-	
b)	Explain	sliding window protocol in detail.	5
5. a)	Explain	CSMA/CD protocol.	(1) 6

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	b)	Discuss the channel allocation issue. How is it resolved.	6
70	9)	OR	
6.	a)	Differentiate between Pure ALOHA and slotted ALOHA.	7
	b)	Explain PPP and LCP.	6
7.	a)	Explain about distance vector routing.	7
	b)	Explain Dijkstra's shortest path algorithm.	6
		OR	
8.	a)	Explain and differentiate between static and Dynamic Routing.	7
_	b)	What routing technique is applied in flooding? How flooding affect network performance?	6
9	a)	Write short notes on Internet Protocol (IP).	6
	b)	Explain Leaky bucket and Token bucket algorithm.	8
		OR	
10.	a)	Compare between IPv4 and IPv6.	4
	b)	What do you mean by congestion? How clock packet algorithm helps in congestion control?	6
	c)	Write short notes on ARP.	4
11.	a)	Write short notes on ATM Layers.	5
	b)	Discuss in brief different quality of service (QOS) parameters used in transport layer.	5
	c)	Write short notes on Bluetooth.	3.
		OR	
12.	a)	Write short notes on wireless & ANS IEEE 802.11.	6
	b)	Draw and explain ISDN system Architecture.	4
	c)	Explain in brief satellite Network.	3
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