SF(IT) Some - IV Nedworius Torneolos. In Disidol 55: 2nd half-12-(1) JP

Devios. 17/12-12

KR-7517

(b) QPSK DNS

CSMA / CD.

C	on. 7	KR-751	
		(3 Hours) [Total Marks: 100	)
1	i.B.:	<ol> <li>Question No. 1 is compulsory.</li> <li>Attempt any four questions from remaining six questions.</li> </ol>	
1	. (a)	A pure ALOHA network transmits 200 bit frames on a shared channel of 200 kbps. 10 What is the throughtput if the system (all stations together) produces?  (i) 1000 frames per second  (ii) 500 frames per second  (iii) 250 frames per second.  Explain the life cycle of CORBA.	
_		10	
2.	(a) (b)	What is routing in network? Write the difference between adaptive and 10 non-adaptive routing. Write any one algorithm of adaptive routing.	-
	(D)	Vhat is RPC? How RPC is implemented? How are the stubs generated? 10	
3.	(a)	company is granted the site address 201.70.64.0. The company needs six subnets. 10 Design the subnets.	
-	(b)	the following is a dump of TCP header in hexadecimal format	
		05320017 00000001 00000000 500207FF 00000000	
		<ul> <li>(i) What is the source port number?</li> <li>(ii) What is the sequence number?</li> <li>(iii) What is the acknowledgement number?</li> <li>(iv) What is the length of header?</li> <li>(v) What is the window size?</li> </ul>	_
4.	(a)	alculate the maximum bit rate for a channel having bandwidth 1600 Hz. If: 10  (i) S / N ratio 0 dB  (ii) S / N ratio is 20 dB.	
	(b)	ifferentiate between :—  (i) Star topology and Bus topology  (ii) Circuit switching and Message switching.	
5.	(a) (b)	xplain the network performance major metrics.  xplain hubs, gateways and bridges.  10	
6.	(a) (b)	kplain IPV <sub>4</sub> datagram format.  10 hat is multiplexing? Explain different types of multiplexing.  10	
7.	Writ	short notes on :— 20	