Second Semester M. E. (Computer Sci. and Engg.) Examination

COMPUTER COMMUNICATION NETWORK

Paper - 2 RMEF 1 / 2 RME 1

Tin	Time: Three Hours] [Max. Ma		
	No	te: (1) Due credit will be given to neatness and adequate dimensions. (2) Illustrate your answer wherever necessary with the help of neat sketch (3) Use pen of Blue/Black ink/refill only for writing the answer bo	ies. ok.
1.	(a)	What are the requirements for inelastic traffic? Explain them in bri	ef. 7
	(b)	List and explain four key technologies which have played a role in ecvolution of internet working.	he 7
		OR	
2.	(a)	Explain comparison of the OSI and TCP/IP protocol architecture.	7
	(b)	With the help of diagram explain the Ipv6 packet with extension heade	гs. 7
3.	(a)	What is the convergence sublayer (CS) and segmentation and Reassemb sublayer (SAR) of AAL protocols.	ıly 7
	(b)	Discuss the comparison of X.25 and frame relay protocol stacks.	6
		OR	
4.	(a)	Explain fibre channel protocol architecture.	6
	(b)	List and briefly explain the fields in an ATM cell.	7

(a) List and explain the examples of self-similar data traffic.

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P. Pages: 3

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	(0)	queques ? Explain in brief.	эг 7
		OR	
6.	(a)	What is meant by network of queues? Explain Jackson's theorem analyze a network of queues.	to 7
•	(b)	• • • • • • • • • • • • • • • • • • • •	n. 6
7.	(a)	Explain the following congestion control techniques. (i) Back pressure.	
		(ii) Choke packet.	
		(iii) Implicit congestion signalling.	
		(iv) Explicit congestion signalling.	8
	(b)	Explain performance of TCP over ATM.	6
		OR	
8.	(a)	Define flow control? Describe slidding window flow control.	8
	(b)	Briefly describe Jacobson's algorithm.	6
9.	(a)	Explain Breath-first search for spanning tree.	7
	(b)	Explain RIP packet format.	6
	•	OR	
10.	(a)	Explain IGMP message format.	7
	(b)	What is OSPF. Explain OSPF packet format.	6
11.	(a)	What is the difference between FIFO quening and WFO quening? Explain brief.	in 7
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	(b)	List the design goals for RSVP.	6
•		OR	
12.	(a)	Explain the random early detection algorithm.	6
	(b)	What DS and Explain its configuration and operation.	7

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