BT-6/J04

Computer Networks

Paper : COT-306

Tin	ne : 1	hree Hours] [Maximum Mark	s: 100	
Note:		(1) Attempt any FIVE questions.		
		(2) All questions carry equal marks.		
1.	(a)	(a) Discuss the aims and objectives of Computer Networks.		
	(b)) Discuss for example, each of the physical media required fo		
		transporting of information from one place to other	. Also	
		discuss their, relative merits & demerits.	20	
2.	(a)	Explain the functions and responsibilities of each layer OSI reference model.	rofthe	
	(b)	How OSI different than a TCP/IP ?	20	
3.	(a)	What is the need of the protocol in a communication sy What do you mean by end to end requirements?	stem?	
	(b)	Discuss a sliding window protocol (use diagrams).		
	(c)	Discuss what do you know about HDLC.	20	
4.	(a)	Discuss token ring and token bus Lan's and compare	them.	
	(b)	Explain CSMA-CD and CDMA.	. 20	
5.	Exp	lain the difference between :		
	(a)	Circuit and packet switchings		
		Datagrams and virtual circuits.		
		Physical and logical connections		
	1000	Switch, hub and a router		
	10.00	Bridge and a router	20	
6.	(a)	Discuss: IP addressing, IP routing, UDP and murouting.	ılticast	
	(b)	Explain : ARP and RARP.	20	
7.	(a)	Explain the various error correction techniques.	27	
	(b)	Where do we need multiplexing?		
	(c)	What are the performance measures of LAN? What are	eLAN	
		components ?	20	
8.	7.7	Discuss any two congestion control algorithms.		
	(b)	Explain: SNMP and e-mail.	20	