## BT-6/J07

## **Computer Communication Networks**

		Paper: ECT-310
Tin	ne : T	Three Hours] [Maximum Marks : 75
	te:	Question 1 is compulsory. Attempt any other FOUR questions picking only ONE from each unit.
		Compulsory Question
1.	(a)	Explain various LAN technologies briefly.
		Who do we used layered approach to network architecture?
	(c)	
		Describe the sequence of events that take place when two stations simultaneoulsy start transmission in CSMA/CD.
	(e)	Explain the advantages of dynamic routing over static routing. 5×3
-		UNIT—I
2.	(a)	What is ATM network? How does it differ from STM? What is packet switching? Explain its differences with circuit switching.
	(b)	What are different wireless communication standards used in computer networks? OF KNOWLEDGE 8
3.		Describe ATM reference model and its layered architecture.8  Describe in brief role of each layer of OSI network model.7
		UNIT—II
4.	(a)	Explain pure and slotted ALOHA systems. Obtain their efficiencies.
	(b)	Explain the working of IEEE 802.5 LAN standard including its maintenance.
5.	(a)	Explain one bit sliding window protocol. 9
	(b)	Describe the requirement of error control in data link layer. Data link protocols almost always put the CRC in a trailer rather than in a header. Why?
	t	UNIT—III
6.	(a)	Why is transport layer not present inside the subnet ? Explain.
	(b)	Explain the connection establishment phase of TCP. 10
	(c)	Identify the range of IPv4 addresses spanned by classes A, B and C.

/.	(a)	What is the difference between flow control and congestion
		control? Describe TCP congestion control.
	(b)	,
	(c)	Explain the requirement and the process of fragmentation and reassembly in the network layer.
		UNIT—IV
8.	(a)	What are the digital signatures? How to generate them?
	(b)	What is meant by virtual terminal? How does Telnet work? Explain the standard.
9.	(a)	What is the difference between public key cryptography and symmetric key cryptography? Explain also the scenarios in which they may be used.
	(b)	Describe the message format of RFC 822 including meaning



