

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: MCAN-204 Networking UPID: 002521

Time Allotted : 3 Hours Full Marks :70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

## **Group-A (Very Short Answer Type Question)**

1. An	ver any ten of the following :	[ 1 x 10 = 10 ]
	(I) What do you mean by resolver?	
	(II) What are the three elements of network security?	
	What do you mean by physical addressing?	
	IV) How many layers in TCP/IP model?	
	(V) What is IPv4?	
	VI) What do you understand by congestion control?	
	VII) Give an example of switched WAN.	
	What is the bit length of port address of TCP/IP?	
	What is classful addressing?	
	(X) What is traffic descriptor?	
	What is IP?	
	What do you mean by datagram?	
	Group-B (Short Answer Type Question)	
	Answer any three of the following:	[ 5 x 3 = 15 ]
2.	Vrite the differences between half-duplex, full-duplex with examples.	[5]
3.	Vrite the differences between TCP/IP and OSI model.	[5]
4.	for n devices in a network, what is the number of cable links required for a ring, bus, and star topology? Why are protocol needed?	[5]
5.	Vrite the differences between primary vs secondary server.	[5]
6.	What are the uses of PGP(Pretty good privacy)?	[5]
	Group-C (Long Answer Type Question)	
	Answer any three of the following:	[ 15 x 3 = 45 ]
7.	What are the key elements of a protocol? Explain briefly. What are the two categories of d	ata [
	rommunication standards?	3+3+3+3+3
5		20,250
	Vrite short notes: ARP, ICMP, UDP.	[ 5+5+5 ]
9.	What are the differences between point-to-point and multi-point connection in data communication. What are the main three network criteria? What are the fundamental characteristics of decommunication?	しょうじょく そっち りんみ しゅう
10.	What is implicit and explicit signaling? Write short notes: Weighted Fair Queuing, Priority Queuing, Fl	IFO [
	Queuing.	3+3+3+3+3
174	3/25/12/12/12/12/12/12/12/12/12/12/12/12/12/	5,000
11.	Vrite RSA algorithm. n a RSA cryptosystem, a participant A uses two prime numbers p = 13 and q = 17 to generate his/l	[8+7] bor
	in a RSA cryptosystem, a participant A uses two prime numbers $p = 13$ and $q = 17$ to generate his/locally and private keys. If the public key of A is 35, then what will be the the private key of A?	THE STATE OF THE S

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