



## SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

## CAT-I

## CSE 1004 - Networks and Communication

Course Name: B.Tech	Slot: D1	Max. Marks: 50
Answ	er Al.L. Questions (5 * 10 = 5	(0)
For each of the following four r	networks, mention the conseque	nces if a connection fails.
Five devices arranged Five devices arranged Five devices arranged	in a star topology (not counting	the hub)
Five devices arranged	in a ring topology	
Distinguish between port addr	ess, logical address and a phys	ical address. Identify the
layer functionality for the fo	llowing services: from differences in data represe ransmission	(6)
Let us assume that Comput and LAN2. Depict this seen:	er S sends a message to Compu trio as a diagram. Show the cor	
	ita link layer for each hop inter	A CHARLES AND COLOR OF THE PARTY OF THE PART
b. Discuss the need for protoco	Is and standards.	(4)
What are the factors that affe	ect network performance?	(4)
	1110 and the divisor 10011, he code word at the sender site te code word at the receiver site	
■ ■ The state of the state	hat transmitting the data directl nary satellite situated 10,000 k	
between the two servers. The Find the propagation de	data enters this network at 10 lay if data travels at the speed in transit during the propagat	0Mb/s. (10) of light $(2.3 \times 10^8 \text{ m/s})$ .
5. A sender needs to send the four Hex). Answer the follow		
Find the checksum at th		(10)
	he receiver site if there is no er	ror.
	he receiver site if the second d	
	he receiver site if the second data item is changed to 02BA.	ata item is changed to
	is used to add data items in c	hecksum calculation?
ABCE and the third day	ta item is changed to 02BA.	