

Sardar Patel Institute of Technology Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

	End Semester Examination				
The Party	May 2022	July 9 Householder on V			
Max. Marks: 60		Duration: 2 Hrs	Duration: 2 Hrs		
Class: SECOMP/SEIT ·		Semester: IV	Semester: IV		
Course Code:CS207/IT207		Branch: COMPS/IT	Branch: COMPS/IT		
Name of the (Course: Computer Communication and Netv	working	L		
Instruction:					
(1) All question	ons are compulsory				
(2) Draw neat	diagrams				
(3) Assume su	iitable data if necessary				

Q. No.		Max Mar ks	CO- BL- PI
Q.1a	What are three classes of DNS server? Describe the purpose and working of DNS in brief.	8	1-1- 1.3.1
Q.1b	Explain purpose of Line coding. Discuss Polar NRZ schemes. OR Write merits and demerits of OSI Model.	8	1-1-1.3.1
Q.2a	Explain different approaches to congestion control? How does congestion is perceived/detected?	8	2,3-2- 1.3.1
Q.2b	How cumulative acknowledges are used with Go Back N? what is the alternate ACK mechanism used by selective repeat protocol and how it is used?	10	2,3-2- 1.3.1

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Q.3	What do you mean by Framing? Explain byte stuffing? A bit stuffing framing protocol uses an 8 bit delimiter pattern 01111110. If the output bit string after stuffing is 01111100101, find the input bit string?	8	2,3-3- 2.1.1
	OR What is the principle of Random-Access Protocol at data link? Differentiate Pure ALOHA and Slotted ALOHA		
Q.4a	Suppose computers A and B have IP addresses 10.105.1.113 and 10.105.1.91 respectively and they both use the same net mask N. Which of the values of N given below should not be used If A and B should belong to same network. i>255.255.255.255.0 ii>255.255.255.128 iii>255.255.255.254 Justify your answer.	8	4-5-2.4.1
Q.4b	For the network given in the figure below, using distance vector routing, write the initial routing table at each node and show how updating of Routing table takes place at C after receiving information from E.	10	4-5-4.1.2
	8 B 2 F		