Bharatiya VidyaBhavan's
Sardar Patel Institute of Technology

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End Semester Examination	
November 2019	
Max. Marks: 60	Duration: 3Hrs
Class:SEMESTER :V	
Course Code: IT52Branch: I.T.Name of the Course: Computer Network	

Instructions: (1) Draw neat diagrams wherever necessary
(2) Assume suitable data if necessary

Qu. No		Marks	CO	BL
1) a)	Explain the types of transmission modes for data flow.	6	CO1	2
b)	What measurement are taken to control population and life of link state packets in link state routing algorithms? Explain.	6	CO3	3
2) a)	Discus about physical properties of Ethernet 802.3 with necessary diagram of Ethernet . OR Discuss the framing technique used in HDLC. What is the effect of errors on this framing?	6	CO2	3
b)	Discuss the problems encountered in CAMA/CD in wireless lans. How does 802.11 specifications solve this problem.	6	CO2	3
3) a)	A company is granted the site address 181.56.0.0 (class B). The company needs 1000 subnets. Design the subnets. OR In classless addressing, can two blocks have the same prefix length? Explain.	6	CO3	3
b)	Explain BGP in detail.	6	CO3	3
4)a)	Explain queuing in UDP.	6	CO4	4
b)	Discuss how TCP implements flow control in which the receive window controls the size of the send window with an example.	6	CO4	4
5) a)	Explain connection establishment in TCP	6	CO4	4
b)	Define different modes of operations in TELNET and their efficiency.	6	CO1	2