		Duration: 3hrs [Max Marks: 80]	
N	I.B.	 (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly. 	
1		Attempt any FOUR	[20]
	a	Explain guided and unguided media used in network communication.	[05]
	b	Explain various LAN topologies with neat diagram.	[05]
	c	You have an IP address 190.16.15.20/28. What is the class of address, also find	[05]
		first and last address of the block for given IP address.	
	d	Compare TCP and UDP.	[05]
	e	Draw and explain SSH frame format.	[05]
2	a	Draw OSI layer model. Explain function of each layer of OSI model.	[10]
	b	List down ethernet devices, explain the functions of each device.	[10]
3	a	Explain classfull IP addresses. Justify why subnetting is required.	[10]
	b	Explain IPV4 header format also compare IPv4 with IPv6.	[10]
4	a	What is flow control? Explain sliding window technique with suitable example.	[10]
	b	Explain CSMA/CA with the help of flow diagram.	[10]
5	a	Explain TCP header with the help of suitable diagram & list the application of	[10]
		TCP.	
	b	What are the different components of an e-mail system? What are the features of	[10]
		SMTP protocol.	
57		Write Short Note on any four. a) Berkeley API b) TELNET c) Wireless LAN d) Open loop congestion control e) Domain Name System	[20]