## SEM-I (CBGS) COMP 23/5/16 Computer Networks.

**QP Code: 31134** 

		(3 Hours)	
		Tota	1 marks : 80
Note:		•	
•	Quest	ion No. 1 is compulsory.	
•	Attem	pt any Three questions out of remaining questions.	
•	Make	suitable assumptions whenever necessary.	
		a) Compare connection oriented and connectionless services. b) Explain in short Subnetting. c) Explain in short different framing Methods. d) Explain in short TCP/IP Model.	32:
	Q 1:		[4X5]
		a) Compare connection oriented and connectionless services.	* * * * * * * * * * * * * * * * * * *
		b) Explain in short Subnetting.	
	100	c) Explain in short different framing Methods. d) Explain in short TCP/IP Model.	
		e) What is the use of SSH?	
	Q 2:	That is all as of soil .	
		a) Explain any four functions of Data Link layer with example.	[10]
		b) What is IPv4 protocol? Explain the IPv4 Header formar with diagram.	[10]
	Q 3:	C.p.	
		a) Explain Classless Inter Domain Routing (CIDR).	[10]
		b) Discuss the quality of service parameters in computer network.	[10]
	Q 4:		
	Q T.	A STATE OF THE STA	
		a) What are the steps involved in link state routing. Explain the contents	
		and requirements of link state packets.	[10]
	0.5	b) Compare Open Loop congestion control, Closed Loop congestion cont	[ 01 ].lor.
	Q 5:	a) Write a Program for client-server application using Socket Programm	ing(TCP)
		a) Write a Frogram for Chenc-server application using socker frogramm	[10]
		b) An ISP is granted a block of addresses starting with 150.80.0.0/16.	[]
		The ISP wants to distribute these blocks to 2600 customers as follows:	ws.
		a. The first group has 200 medium-size businesses; each needs 128	
		b. The second group has 400 small businesses; each needs 16	
	Ę	c. The third group has 2000 households; each needs 4 addresses.	Design th
		subblocks and give the slash notation for each subblock. Find out	
		addresses are still available after these allocations.	[10]
	Q 6: V	Write short notes on the following.	[5X4]
		a) Virtual LAN	
		b) FDDI	
	ž	c) BGP d) SNMP	
		a) SIMM	