Maximum Marks: 70

B.Tech. – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (BTECVI)

Term-End Examination

June, 2015

10584

Time: 3 hours

BIEL-021 : COMPUTER COMMUNICATION NETWORKS

Note: Attempt any seven questions. All questions carry equal marks. Missing data, if any, may be suitably assumed.				
1.	(a)	What are the types of topologies used when customers are in an area using DSL modems for data transfer purposes? Explain.	E	
	(b)	Explain the functions of each layer in OSI model.	ŧ	
2.		at do you mean by flow control? Also explain role of sliding window protocols in detail.	10	
3.	(a)	Compare and contrast random access protocol with a channelizing protocol.	ŧ	
	(b)	What do you understand by non-persistent CSMA?		

4.	(a)	Differentiate between wired and wireless LANs.	E
	(b)	Discuss briefly the services provided by wireless LAN IEEE 802-11.	E
5.	(a)	What are the differences among a unicast, a multicast and a broadcast address?	3
	(b)	Explain the concept of Backbone and Virtual LANs.	7
6.	clas	at are the differences between classful and sless addressing in IPv4? What is NAT? can NAT help in address depletion?	10
7.	(a)	What is the difference between a direct and an indirect delivery?	2
	(b)	Discuss the role of bridge, router and gateway in Internet connection.	4
	(c)	Describe briefly multicast routing protocols.	4
8.	Wha	at is UDP ? Explain UDP format. Also tion its applications.	10
9.	(a)	Find the netid, hostid and class of the IP address given by 14.23.120.8.	3
	(b)	Explain the character oriented protocol and bit oriented protocol related to the data link layer.	5
	(c)	What is a peer-to-peer process?	2

- 10. Write short notes on any **two** of the following: $2\times 5=10$
 - (a) DNS
 - (b) TCP
 - (c) HDLC
 - (d) Connecting LANs