## B. Tech Degree VII Semester (Supplementary) Examination July 2010

IT/CS/EC 701 COMPUTER NETWORKS (2002 Scheme)				
Time: 3 Hours		Maximum Mark	n Marks : 100	
I.	(a) (b)	Briefly explain the TCP/IP reference model and functions of each layer.  Briefly explain BISDN and ATM reference model.  OR	(10) (10)	
II.	(a) (b)	Briefly explain the OSI-ISO reference model and functions of each layer. Explain the following:	(10)	
		(i) X.25 networks (ii) Frame relay	(10)	
III.	(a) (b)	Explain sliding window protocol with example.  Briefly explain the services provided by Data link Layer.	(12) (8)	
	` '	OR	• •	
IV.	(a)	Explain the following: (i) TDM (ii) FDM	(10)	
	(b)	Describe the Random access protocols and explain ALOHA.	(10)	
V.	(a)	Briefly explain how multicast routing is used in internet.	(12)	
	(b)	Briefly explain hierarchical routing.	(8)	
		OR	(10)	
VI.	(a)	Explain IPV4 datagram format.	(10)	
	(b)	Discuss the inter autonomous system routing protocol BGP in detail.	(10)	
VII.	(a)	Explain UDP, its segment structure and how error is detected.	(10)	
	(b)	Discuss the causes and costs of congestion.	(10)	

Discuss the causes and costs of congestion. (D) (IV) OR VIII. Explain TCP, its segment structure with diagram. (a) (12)(8)

Explain how TCP connection management is implemented. (b)

Explain how SNMP is used to manage the network. IX. (a) (10)

What is Digital Signature? Explain how it is implemented. (b) (10)X. Explain how file is transferred using FTP. (8) (a)

(12)

Explain the following: (c) DNS (i)