## B.TECH. DEGREE VII SEMESTER (SUPPLEMENTARY) EXAMINATION IN ELECTRONICS AND COMMUNICATION ENGINEERING OCTOBER 2000

## EC 702 COMPUTER NETWORKS

Time:	3 Hours	Maximum Marks	: 100
(Answer <u>all</u> questions)			
(All questions carry equal marks)			
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I.	(a)	What is a statistical multiplexer? What is the advantage of using this over other multiplexers?	(10)
	(b)	Explain CSMA/CD network standard.	(10)
	(0)	OR	(10)
H.	(a)	What is a modem? Explain one serial communication standard.	(10)
	(b)	Compare the merits and demerits of the transmission media	(10)
		(i) Copper wire (ii) Optical fibre	
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III.	(a) (b)	Explain two reasons for using layered protocols.  Discuss the various applications of computer networks.	(8) (12)
	(0)	OR	(12)
IV.	(a)	Discuss the OSI Reference model explaining the functions of each layer.	(12)
	(b)	Briefly explain the structure of HDLC Protocol.	(8)
V.	(a)	What is packet switching? What are the advantages of this over circuit switching?	(10)
••	(b)	What are the common carrier facilities available?  OR	(10)
VI.	(a)	Explain the principle and architecture of ISDN.	(12)
	(b)	Distinguish between connection oriented and connectionless data transmission.	(8)
VII.	(a)	What are the factors considered in the design of computer networks?	(12)
	(b)	Explain the use of serial data analyser.  OR	(8)
VIII.	(a)	What you mean by network testing?	(10)
	(b)	Explain hybrid modulation.	(10)
IX.	(a)	Briefly explain the different queuing characteristics.	(10)
-2.00	(b)	Discuss the performance of a multiserver system with a number of servers	` ,
		in parallel.	(10)
		OR	(00)
X.		Write short notes on:	(20)
		(i) Gateways (ii) Internet	
		(iii) Matrix switch	
		(iv) Digital PBX	