B. Tech Degree VIII Semester (Supplementary) Examination, September 2006

EC/EB/EI/EE 803 COMPUTER NETWORKS
(Prior to 2002 Admissions)

Time : 3 Hours   Maximum Marks : 100

I.	(a)	Explain the uses of computer networks and social issues.	(10)
	(b)	Describe in detail network software.	(10)

<div align="center">OR</div>

II.	(a)	Explain the data transmission in the OSI model with the help of a figure.	(10)
	(b)	Describe *any two* example networks.	(10)

III.	(a)	Explain in detail *any three* transmission medias with suitable representation.	(15)
	(b)	Explain the structure of the telephone system.	(5)

<div align="center">OR</div>

IV.	(a)	Explain sliding window protocol.	(15)
	(b)	Describe error correction and detection codes.	(5)

V.		Explain about satellite networks.	(20)

<div align="center">OR</div>

VI.	(a)	Explain IEEE 802.4 token bus.	(10)
	(b)	Draw and explain the frame format of IEEE 802.4 token ring.	(10)

VII.	(a)	Explain the design issues of Network Layer.	(10)
	(b)	Explain the shortest path routing algorithm.	(10)

<div align="center">OR</div>

VIII.	(a)	Describe Remote Procedure Call.	(10)
	(b)	Describe the SNMP model.	(10)

IX.	(a)	Explain *any one* secret key algorithm.	(10)
	(b)	Write notes on authentication protocols.	(10)

<div align="center">OR</div>

X.	(a)	Explain the architecture and service of Electronic mail.	(10)
	(b)	Write notes on ftp and virtual terminals.	(10)

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