R13

Code No: **RT41042**

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February - 2019 COMPUTER NETWORKS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	Explain in detail about the MAN.	[3]
	b)	Describe Broad Band ISDN.	[3]
	c)	Discuss about the Ethernet Cabling.	[4]
	d)	What is Multicast Routing? Explain.	[4]
	e)	Explain about the TCP Timer Management.	[4]
	f)	What is the significance of network security?	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Describe the TCP/IP Reference model in detail.	[8]
	b)	Explain the limitations of Arpanet.	[8]
3.	a)	Differentiate Narrow band and broad band ISDN.	[8]
	b)	Describe Light Wave Transmission. Explain its advantages and disadvantages.	[8]
4.	a)	What are the design issues of Data Link Layer? Explain.	[8]
	b)	Explain in detail about the Simplex Stop and Wait protocol.	[8]
5.	a)	Illustrate shortest path routing algorithm with suitable example.	[8]
	b)	Explain the general principles of congestion prevention policies.	[8]
6.	a)	Draw and explain the header format for a user datagram protocol.	[8]
	b)	Discuss about the ATM AAL Layer protocol.	[8]
7.	a)	List and Explain the Two Fundamental Cryptographic Principles.	[8]
	b)	Explain briefly about the MPEG standard to compress videos.	[8]