

Code No: **RT41042**

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Set No. 1

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

(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 70

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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]

$\underline{PART-B} (3x16 = 48 Marks)$

a) b)	Explain the limitations of Arpanet.	[8] [8]
a)	Differentiate Narrow band and broad band ISDN.	[8]
b)	Describe Light Wave Transmission. Explain its advantages and disadvantages.	[8]
a)	What are the design issues of Data Link Layer? Explain.	[8]
b)	Explain in detail about the Simplex Stop and Wait protocol.	[8]
a)	Illustrate shortest path routing algorithm with suitable example.	[8]
b)	Explain the general principles of congestion prevention policies.	[8]
a)	Draw and explain the header format for a user datagram protocol.	[8]
b)	Discuss about the ATM AAL Layer protocol.	[8]
a)	List and Explain the Two Fundamental Cryptographic Principles.	[8]
b)	Explain briefly about the MPEG standard to compress videos.	[8]
	 b) a) 	 b) Explain the limitations of Arpanet. a) Differentiate Narrow band and broad band ISDN. b) Describe Light Wave Transmission. Explain its advantages and disadvantages. a) What are the design issues of Data Link Layer? Explain. b) Explain in detail about the Simplex Stop and Wait protocol. a) Illustrate shortest path routing algorithm with suitable example. b) Explain the general principles of congestion prevention policies. a) Draw and explain the header format for a user datagram protocol. b) Discuss about the ATM AAL Layer protocol. a) List and Explain the Two Fundamental Cryptographic Principles.

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