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# **R13**



#### IV B.Tech I Semester Supplementary Examinations, February/March - 2018 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

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### PART-A (22 Marks)

1.	a)	What is the difference between LAN and WAN?	[3]
	b)	Explain about the Radio Transmission.	[3]
	c)	What is the basic principle of learning bridge?	[4]
	d)	Describe Optimality Principle for Routing.	[4]
	e)	Explain about the TCP Congestion Control.	[4]
	f)	Discuss about the XHTML (eXtended HyperText Markup Language)	[4]

## <u>PART-B</u> (3x16 = 48 Marks)

2.	a)	Differentiate OSI reference model with the TCP/IP reference model.	[8]
	b)	Discuss briefly about the original ARPANET design	[8]
3.	a)	What are the different classes of UTP? Explain.	[8]
	b)	Describe briefly about the circuit-switched networks.	[8]
4.	a)	What is the need of Flow control? Explain the common approaches for flow	
		control in data link layer.	[8]
	b)	Explain how slotted ALOHA solves the problem of Channel allocation.	[8]
5.	a)	Illustrate Routing of Packets within Virtual Circuit Subnet.	[8]
	b)	Classify the static and dynamic routing algorithms? Explain the basic concept	
		of flooding.	[8]
6.	a)	With neat sketch, explain different layers of ATM.	[6]
	b)	Draw and explain each field in the TCP Segment header.	[10]
7.	a)	What is DNS? What resource records are associated with it? Explain.	[8]
	b)	What are the five basic functions supported in e-mail systems? Explain.	[8]