Code No: **RT41042**

R13

Set No. 1

IV B.Tech I Semester Regular Examinations, November - 2016 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 about WAN.	[4]
	b)	What are the different types of ISDN interfaces?	[4]
	c)	With an example explain the process of Error detection using LRC.	[4]
	d)	What is the difference between Broadcasting and Multicasting?	[4]
	e)	What are TCP and UDP protocols?	[3]
	f)	Explain about HTTP.	[3]
		$\underline{PART-B} (3x16 = 48 Marks)$	
2.	a)	Explain the different topologies of the network.	[8]
	b)	Explain the TCP/IP model?	[8]
3.	a)	Explain the significance of Switching? What are different switching techniques used in computer networks? Discuss.	[8]
	b)	Discuss about ATM in detail?	[8]
4.	a)	Explain about ALOHA and CDMA.	[8]
	b)	Explain various classes of IEEE 802.X Standard Ethernet.	[8]
5.	a)	With an example explain the Dynamic routing algorithms used in computer networks.	[8]
	b)	What are the reasons for congestion? What are the problems with congestion?	[8]
6.	a)	Explain the Services of Transport layer.	[8]
	b)	Explain leaky bucket and token bucket algorithms.	[8]
7.	a)	Explain how Network Security can be achieved.	[8]
	b)	Write about electronic mail in detail.	[8]

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Code No: **RT41042 R13**

Set No. 2

IV B.Tech I Semester Regular Examinations, November - 2016 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 about LAN.	[4]
	b)	What are the differences between Narrowband ISDN and Broadband ISDN?	[4]
	c)	With an example explain the process of Error detection using VRC.	[4]
	d)	What are the characteristics of datagram networks?	[4]
	e)	What are the responsibilities of Transport layer?	[3]
	f)	What is meant by data encryption standard?	[3]
		$\underline{\mathbf{PART-B}} (3x16 = 48 \ Marks)$	
2.	a)	Explain various categories of networks.	[8]
	b)	Explain the ISO/OSI reference model.	[8]
3.		With neat sketch explain Twisted pair cables, connectors of twisted pair cables with neat graph explain the performance of Twisted pair cables.	[8]
	b)	What is the significance of ISDN? Explain the basic concept of ISDN. Give the protocol architecture of ISDN?	[8]
4.	a)	Explain the working of CSMA Protocol.	[8]
	b)	Explain the advantages of wireless LANS.	[8]
5.	,	Explain the layered architecture of ATM Network.	[8]
	b)	With an example explain the shortest path routing algorithms used in computer networks.	[8]
6.	a)	Discuss about TCP and UDP Protocols	[8]
	b)	Explain ATM AAL Layer Protocol.	[8]
7.	a)	Write about Electronic mail in detail.	[8]
	b)	Explain the working of DNS.	[8]

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Set No. 3

IV B.Tech I Semester Regular Examinations, November - 2016 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)

		(22 1/20/105)	
1.	a)	Explain about MAN.	[4]
	b)	What is the significance of Switching? What are the different types of Switching techniques?	[4]
	c)	With neat sketch explain the basic concept involved in Elementary Protocol: stop and wait	[4]
	d)	Explain the differences between 10 base 2 and 10 base 5 Ethernet.	[4]
	e)	What are the sub layers of AAL layer of ATM.	[3]
	f)	What is the significance of DNS?	[3]
		$\underline{\mathbf{PART-B}}\left(3x16=48\ Marks\right)$	
2.	a)	Explain the following networks	
		i) ARPANET ii) Internet	[8]
	b)	What is the significance of layered architecture? Explain the OSI layered	507
		architecture with neat sketch.	[8]
3.	a)	With neat graphs explain various line coding techniques (Digital to digital	
		conversion).	[8]
	b)	Explain the concept of ATM and its interfaces. How addressing is achieved in	FO.7
		ATM?	[8]
4.	a)	Explain the following error detection techniques	
		i) LRC ii) CRC	[8]
	b)	With an example explain the sliding window Flow control mechanism.	[8]
5.	a)	With an example explain the distance vector routing algorithms used in computer	
	,	networks	[8]
	b)	What are the general principles of congestion control? Explain.	[8]
6.	a)	Explain in detail about Connection management.	[8]
	b)	Discuss about the header format of UDP.	[8]
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7.		Write short notes on the following i) Multi Media ii) SNMP	[16]
		1) WIGHT WICHTA II) STAMI	[10]

IV B.Tech I Semester Regular Examinations, November - 2016

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)	What is the significance of topologies? What are the different types of topologies?	[4]
	b)	What are the different types of ATM interfaces.	[4]
	c)	Explain the differences between Pure and Slotted ALOHA Systems.	[4]
	d)	Define Congestion. What are the general Principles of Congestion?	[4]
	e)	What is Connection management?	[3]
	f)	Explain the WWW.	[3]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	Explain the differences between OSI model and TCP/IP model?	[8]
	b)	Explain the following networks	
		i) ARPANET ii) NSFNET	[8]
3.	a)	With neat sketch explain Coaxial cable, Standards of coaxial cable and connectors of coaxial cables.	[8]
	b)	Explain the significance of Switching? What are different switching techniques used in computer networks? Discuss.	[8]
4.	a)	Explain the following error detection techniques i) Cheksum ii) CRC	[8]
	b)	What is the significance of Bridges? Explain the different types of Bridges.	[8]
5.	a)	With an example explain the Flooding, Hierarchical routing algorithms used in computer networks	[8]
	b)	Explain the Network layer in the internet.	[8]
6.	a)	Explain ATM AAL Layer Protocol	[8]
	b)	Explain leaky bucket and token bucket algorithms.	[8]
7.		Write short notes on the following	
		i) DNS ii) SNMP	[16]

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