

Code No: **RT41042**

www.FirstRanker.com

www.FirstRanker.com



IV B. Tech I Semester Regular/Supplementary E

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 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 *****

PART-A (22 Marks)

1.	a)	Write about Arpanet.	[2]
	b)	Write the advantages of optical fiber over twisted and coaxial cables.	[5]
	c)	Define bridge? Write about types of bridges.	[4]
	d)	Write about various classes of IP addresses.	[4]
	e)	What are the advantages of transport layer?	[5]
	f)	Define Digital Signature.	[2]

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

and
[8]
[8]
[8]
[8]
[8]
[8]
[8]
[8]
sum
[8]
[8]
[8]
[8]



www.FirstRanker.com

www.FirstRanker.com





Code No: **RT41042** IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 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 *****

DADT A (22 Marka)

		<u>PARI-A</u> (22 Marks)	
1.	a)	What are the advantages of having layered architecture?	[5]
	b)	Discuss about unguided transmission media.	[5]
	c)	Write about Hamming code.	[4]
	d)	Define spanning tree.	[2]
	e)	Write about any two service primitives of Transport layer.	[4]
	f)	What is the purpose of DNS?	[2]
		<u>PART-B</u> $(3x16 = 48 Marks)$	
2.	a)	Distinguish between TCP/IP and OSI Model.	[8]
	b)	Explain detail about Network Hardware. How network hardware support the	[]
	0)	communication of two systems?	[8]
			[~]
3.	a)	Differentiate between guided and unguided transmission media.	[8]
	b)	What are the advantages of Narrow brand and broad band ISDN?	[8]
	,		
4.	a)	Explain detail about the carrier sense multiple access protocols.	[8]
	b)	Describe the working principle of Carrier sense multiple access with collision	
		Detection (CSMA/CD).	[8]
5.	a)	Give the details about Coke packets & Load shedding.	[8]
	b)	Distinguish between Leaky Bucket algorithm and Token Bucket algorithm.	[8]
6.	a)	Write a detailed note on transport services.	[8]
	b)	Explain in detail three way handshaking for connection establishment in TCP.	[8]
		S Contraction of the second se	
7.	a)	What is electronic E-mail? Describe in brief about the two architectures of E-	
		Mail.	[8]
	b)	Distinguish between symmetric and asymmetric encryption.	[8]



Code No: **RT41042**

www.FirstRanker.com

www.FirstRanker.com





IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 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 *****

PART-A (22 Marks)

a)	What are the advantages of MAN?	[5]
b)	Write about the twisted coaxial cables.	[5]
c)	Draw the Ethernet frame format.	[4]
d)	Define Tunneling.	[2]
e)	Write about UDP.	[2]
f)	What is the function of SMTP?	[4]
	PART-B $(3x16 = 48 Marks)$	
a)	What are the distinct characteristics of local area networks, explain briefly?	[8]
b)	Discuss in brif about TCP/IP protocol Suite.	[8]
a)	Explain details about ISDN. Describe the types of ISDN.	[8]
b)		
,	disadvantages.	[8]
a)	What is pure ALOHA and slotted ALOHA? Mention the advantages of slotted	501
1 \		[8]
b)	what are the draw backs of stop and wait protocol? How can they overcome by sliding window protocol?	[8]
a)	What are the static routing algorithms? Explain the concept of flooding	[8]
		[8]
0)	Explain the prevention ponees of congestion.	[0]
a)	What are the functions of transport layer? State transport service primitives.	[8]
b)	Explain the layer of ATM.	[8]
a)	Explain in brief about the formats of HTTP request and Response messages?	[8]
b)	What is a name server? List and explain the features of various name servers.	[8]
	 b) c) d) e) f) a) b) a) 	 b) Write about the twisted coaxial cables. c) Draw the Ethernet frame format. d) Define Tunneling. e) Write about UDP. f) What is the function of SMTP? f) What are the distinct characteristics of local area networks, explain briefly? b) Discuss in brif about TCP/IP protocol Suite. a) Explain details about ISDN. Describe the types of ISDN. b) Give brief description about the co-axial cables and also mention their disadvantages. a) What is pure ALOHA and slotted ALOHA? Mention the advantages of slotted ALOHA. b) What are the draw backs of stop and wait protocol? How can they overcome by sliding window protocol? a) What are the static routing algorithms? Explain the concept of flooding. b) Explain the prevention polices of congestion. a) What are the functions of transport layer? State transport service primitives. b) Explain in brief about the formats of HTTP request and Response messages?



Code No: **RT41042**

www.FirstRanker.com

www.FirstRanker.com



Set No. 4

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 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 *****

PART-A (22 Marks)

1.	a)	Define Computer network.	[2]
	b)	Discuss the construction of coaxial cable.	[6]
	c)	What are the advantages of slotted Aloha?	[5]
	d)	What is the difference between broad casting and multicasting?	[5]
	e)	What are the transport layer protocols?	[2]
	f)	What is a firewall?	[2]

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

2.	a) b)	Why are a LAN required and what objectives are achieved by having a LAN? Define Topology. Discuss in brief about computer network topologies.	[8] [8]
3.	a)	Describe the Transmission Media. What are the types of Transmission Media?	[8]
	b)	Discuss various channels supported by ISDN bit pipe.	[8]
4.	a)	Discuss about CSMA/CD protocol and its basic functions.	[8]
	b)	What is the significance of bridge? What are the different types of bridges?	
		Explain.	[8]
5.	a)	With neat sketch, Explain virtual circuit switching.	[8]
	b)	What is multicasting? Briefly discuss multicasting techniques and protocols.	[8]
6.	a)	Discuss various flow control mechanisms in transport layer.	[8]
	b)	Define UDP and discuss the different fields of the format of a used datagram.	[8]
7.	a)	What is World Wide Web? Explain details about HTTP.	[8]
	b)	Describe importance of DNS in application layer.	[8]