Code No: R17A0514

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, July/August 2021 Computer Networks

			(CSE	& I	T)						_	
		Roll No											
Time:	3 hours	<u> </u>	<u> </u>								Max] x. Mark	ks: 70
		1	Answer A	Any 1	Five	Ques	tion	S					
		All	Question			equa	l ma	rks.					
					**								
1		Explain briefly abo											[8M]
	b)	What are the Type	s of Wir	eless	Tran	smis	sion	Med	dia?	Expl	ain it	t.	[6M]
2	a) What are the differences between TCP/IP Model and OSI Model?											[7M]	
2		What is Network											
	U)	Network.	Topolog	;y: L	хріаі	II UII	ilere	m ty	pes	01 11	opoic	igies iii	[/1/1]
		retwork.											
3	a)	What are the Elementary Data Link Layer Protocols? Discuss it.									[8M]		
	b)	Discuss about Ethe	ernet MA	AC Su	ıb La	ıyer.							[6M]
4	a)	What is Sliding Window Protocol? Discuss with Neat Example								[8M]			
	,	<u>.</u>								[6M]			
								_					
5	a)	Draw a neat Network diagram to explain the routing functionality of [[10M]		
		Link State Routing Algorithm.											
	b)	What is Optimality	/ Princip	le in	Netw	vork	Rou	ting	?				[4M]
6	a)	What is CIDR? W	hy CIDF	need	ded F	Expla	in w	ith F	Exam	nle?)		[8M]
Ū		What are the Diffe	•			-				-			[6M]
	ŕ												
7		What are the Trans	-										[6M]
	b)	Draw and explain	each fiel	d in t	he T	CP S	egm	ent l	nead	er			[8M]
8	Write	a Brief Notes on Fo	llowing										
3		World Wide Web											[5M]
	,	E-Mail											[5M]
	c)	Telnet											[4M]

Code No: R15A0514

Time: 3 hours

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, December 2019 Computer Networks

(IT)											
Roll No											
Max. Marks:										ks: 75	

Note: This question paper contains two parts A and B

Part A is compulsory which carriers 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions,

Choosing ONE Question from each SECTION and each Question carries 10 marks.

Part- A (25 Marks)	
1.a.Explain the characteristics of twisted pair cable.	[2M]
b. Differentiate switch and hub.	[3M]
c. What is telnet? Write purpose of telnet.	[2M]
d. Define pure ALOHA and slotted ALOHA.	[3M]
e. Write about cyclic redundancy checking(CRC).	[2M]
f. Give the advantages of hierarchical routing.	[3M]
g.Discuss the principles of internetworking.	[2M]
h. What is CIDR addressing?	[3M]
i. Compare HTTP and FTP.	[2M]
j. What are the two main categories of DNS messages?	[3M]
Part-B (50 Marks)	
SECTION-I	
2. a)Explain the functions of various layers in ISO-OSI reference model.	[5M+5M]
b)Explain the term sliding window. Also illustrate and explain the operation of selective	e repeat.
OR	
3. a)Discuss about unguided transmission media.	
b)Explain stop and wait protool.	[5M+5M]
SECTION-II	
4 . a)Explain CSMA/CD protocol and how does it detect collision?	
b)Discuss about switched and fast Ethernet.	[5M+5M]
OR	
5 .a)Explain MAC sub layer protocol in detail.	
b)Discuss about spanning tree bridges.	[5M+5M]
SECTION-III	
6 .a)Elucidate Distance Vector Routing Algorithm with example.	
b)Describe the problem and solutions associated with distance vector routing.	[5M+5M]
OR	

7. a) Explain the general principles of congestion control.

b)Describe congestion control in datagram subnets. [5M+5M]

SECTION-IV

8. Given a network address of 192.18.100.0 and a subnet mask of 255.255.255.192.

a)How many subnets are created?

b)How many hosts are there per subnet? [5M+5M]

OR

9. a)Discuss ICMP Messages.

b)Explain Tunneling in Internet layer. [5M+5M]

SECTION-V

10. a)Explain about the TCP timer management.b)Explain the payload types of Real Time Transport Protocol.

[5M+5M]

11. Describe RSA algorithm.

[10M]

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, February 2021 Computer Networks

			Co	mpu	ter Ne	two	rks							
					(IT)						1	7		
		Roll No												
Time: 2 hours 30 min Max. Marks: 75									5					
					y Five (_								
		All	Quest	ions (carries (equa	l ma	rks.						
1 Explain OSI network architecture and explain the functionalities of every layer in										[15M]				
detail?														
	uctan:													
2	Comparison of the OSI and TCP/IP reference model										[15M]			
3	Explain the different types of error detection & Correction									[15M]				
4	A NV-translation to the state of the state o										[15M]			
4	Write short notes on										[151/1]			
a) Router b) Bridge c) Gateway d) Repeaters e) Hub														
5	Explain Distance vector routing algorithm with an example & problems and										[15M]			
solutions associated with Distance vector routing.														
6	Company of Different should be a significant and be a significant and be a significant and a significa										[15M]			
Ü	Explain about Dijkstra shortest path algorithm with an example?									[131/1]				
7	How crash recovery is managed at the transport layer & What are the services										[15M]			
	provided l	by the transport lay	yer to	uppei	r layers									
8	Write sho	rt notes on												[15M]

a) E-mail b) WWW c) Telnet d) DNS e) SSH

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Roll No

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Regular Examinations, November 2019 Computer Networks

(CSE & IT)

Time: 3 hours Max. Marks: 70											
		uestion paper Consists of 5 Sections. Answer FIVE Questions, Choosing ONE									
	-	n each SECTION and each Question carries 14 marks.									

	SECTION-I										
1	a)		1								
	/	network	•								
	b)		1								
OR											
2	a)										
	b)	· · · · · · · · · · · · · · · · · · ·									
	- /	SECTION-II	•								
3	a)		1								
	b)		•								
	,	protocol? Explain? [7M]	1								
		OR	•								
4	a)	Given 1101011011 data frame and generator polynomial $G(x) = x4 + x + 1$. [7M]	1								
	,	Derive the transmitted frame	•								
	b)	Give a detail note on the ALOHA protocols. [7M]	1								
	,	SECTION-III									
5	a)	Describe the problems and solutions associated with distance vector [7M]	1								
		routing.	-								
	b)	Distinguish ARP and RARP Protocols and their services. [7M]]								
	,	OR	-								
6	a)	Describe Dijkstra shortest path algorithm. Also show working of Dijkstra [7M]]								
		algorithm with the help of an example.									
	b)	Discuss the different IP addressing methods. [7M]]								
		<u>SECTION-IV</u>									
7	a) Des	scribe three-way hand shaking protocol to establish the transport level [5M]]								
	connec	ction.									
	b) Exp	plain TCP connection management with neat diagram [9M]]								
		OR									
8	a)]								
	b)	Describe in detail about TCP sliding window [7M]]								
		SECTION-V									
9	a)]								
	b)	1 1									
		networks? [7M]]								
		OR									
10	a)		_								
	b)]								

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Regular Examinations, November 2019 Computer Networks

Roll No

Time: 3 hours Max. Marks: 70 **Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks. **SECTION-I** 1 a) Compare and contrast a circuit-switched network and a packet-switched [7M] network b) Explain ISO/OSI Reference model with neat diagram? [7M] 2 a) Write short notes on TCP/IP model and explain with neat diagram. [7M] b) Explain Guided media with neat diagrams. [7M] **SECTION-II** 3 a) Compare various sliding window protocols of data link layer [7M] [7M] b) How performance is improved in CSMA/CD protocol compared to CSMA protocol? Explain? [7M] OR 4 a) Given 1101011011 data frame and generator polynomial G(x) = x4 + x + 1. [7M] Derive the transmitted frame b) Give a detail note on the ALOHA protocols. [7M] **SECTION-III** 5 a) Describe the problems and solutions associated with distance vector [7M] routing. b) Distinguish ARP and RARP Protocols and their services. [7M] 6 a) Describe Dijkstra shortest path algorithm. Also show working of Dijkstra [7M] algorithm with the help of an example. b) Discuss the different IP addressing methods. [7M] **SECTION-IV** 7 a) Describe three-way hand shaking protocol to establish the transport level [5M] connection. [9M] b) Explain TCP connection management with neat diagram OR 8 a) Illustrate the connection establishment and release in transport layer. [7M] b) Describe in detail about TCP sliding window [7M] **SECTION-V** 9 a) Explain Domain Name System. [7M] b) Compare and contrast client/server with peer-to-peer data transfer over networks? [7M] OR 10 a) Describe in detail about the World Wide Web (WWW)? [7M] b) Explain RSA algorithm in detail [7M] *****