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Code No: R17A0514 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) III B.Tech I Semester Regular Examinations, December 2019

Computer Networks

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	Roll No										
Time: 3 hours										М	y Marke 70
Note: This question	on paper Consists of	f 5 Section	s Ar	swer	FIV	E O	iestic	nns (hoos	ing (ONE Question from
each SECTION and	leach Question carr	ies 14 mai	·ks	13 W C1	111	ĽŲ	uesti	ль, с	211002	sing (
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		<u>SEC</u>	CTIO	<u>N-I</u>		-					
1. Explai	n ISO-OSI Reference (OR)	ce Model v	with r	neat s	ketch	1					[14M]
2. Explai	n different kinds of	Transmiss	sion N	Aedia	ι.						
1		SEC	CTIO	N-II							
3. Explai	n CSMA and CSMA	A/CD in d	etail.								[14M]
4.(a) Expla	in Data Link Laver	Switching	7 .								
(b) Expla	ain Collision Free P	rotocols.	-								
		SEC	TIO	N-III							
5. Explain	Dynamic Routing a	lgorithms.									[14M]
	(OR)										
6. Explain	Congestion Control	algorithm	ns.								
	· 101/4.1 1 C	<u>SEC</u>	FION	<u>-IV</u>							[1 A) (7)
/.(a) Expla	in IPV4 header form	mat.									[14M]
(d) Expla	(OP)										
8 (a) Expla	in Transport Laver	Services									
(b) Expla	ain Crash Recovery.	Bervices.									
(0) 2p.		SEC	ΓΙΟΝ	J-V							
9.(a) Expla	ain UDP header form	nat.		<u> </u>							[14M]
(b) Expla	ain TCP Connection	managen	nent n	nodel	ing.						
	(OR)										
10. Explain	n the following										
(a) FTP	(b) TELNET (c) I	DNS									

Code No: R17A0514 MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous Institution – UGC, Govt. of India) **III B.Tech I Semester Regular Examinations, December 2019 Computer Networks** (CSE & IT) **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. ***** **MODEL PAPER-II SECTION-I** 1. Explain TCP/IP Model with neat sketch [14M] (OR) 2. Explain about Unguided Transmission Media. **SECTION-II** 3. Explain Pure and Slotted ALOHA in detail. [14M] (OR) 4.(a) Explain Sliding window Protocol. (b) Explain Spanning tree bridges. **SECTION-III** 5. Explain Shortest Path Routing algorithm and Flooding. [14M] (OR)6. Explain Congestion Prevention Policies. **SECTION-IV** 7.(a) Explain IPV6 header format. [14M] (b) Explain ARP and RARP. (OR) 8.(a) Explain Transport layer Connection Establishment and Connection Release. (b) Explain Transport protocol addressing. **SECTION-V** 9.(a) Explain TCP header format. [14M] (b) Explain TCP Congestion Control. (OR) 10. Explain the following (a) SMTP (b) HTTP (c) DNS

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Time: 3 hours

Max. Marks: 70

[14M]

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks. *****

MODEL PAPER-III SECTION-I

1. Comparision between OSI Reference Model and TCP/IP Reference Model . [14M] (OR)

2. Explain about Switching Techniques.

SECTION-II

3.(a)Explain Error detection using CRC for the following: [14M] Consider a message 110010 represented by the polynomial M(x)=x5+x4+xand a generating polynomial G(x)=x3+x2+1(1101).

(b) Explain Sliding window Protocol.

(OR)

4. Explain Ethernet physical and MAC sublayer and Ethernet types.

SECTION-III

5.(a)Describe Classification of IP addresses and explain CIDR.	[14M]
(b) Write short notes on Packet Fragmentation.	

(OR)

6. Explain Leaky bucket and Token bucket algorithms.

SECTION-IV

7.(a) Write notes on transport layer services.

(b) Describe about transport layer addressing.

(OR)

8. Explain Transport layer Connection Establishment and Connection Release.

SECTION-V

<i>P.</i> (a) Explain RSA Algorithm.								
(b) Explain Tw	o-way Handshake a	and Three-way	Handshake me	thods.				
	(OR)							
10. Explain the fo	ollowing							
(a) SMTP	(b) HTTP	(c) DNS	(d) E-Mail	(e) TELNET				

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		MOD	EL I	PAPI	ER-IV						
		<u>SEC</u>	CTIO	N-I							
1. Compa	re OSI Reference I	Model and	TCP	/IP N	Aodel.				[[14M]	
	(OR)										
2. Explai	n Guided Transmis	sion Media	a.								
		<u>SEC</u>	<u>FION</u>	<u>N-II</u>	_						

Code No: **R17A0514**

Time: 3 hours

1. Compare OSI Reference Model and TCP/IP Model . (OR)							
2.	Explain G	uided Transmission M	edia.				
3.(a	a)Explain C	SI RC Error detection me	ECTION-II thod with Exa	mple.	[14M]		
(ł	o) Explain v	various ALOHA Protoc	ols.				
		(OR)					
4.(a	a)Explain F	ast Ethernet and Gigab	it Ethernet.				
(1	o)Explain th	ne Following:					
	(a) Sw	itch (b) Hub (c) Mode	m (d) Bridge	(e) Router			
		<u>SE</u>	ECTION-III				
5.(a	a)Explain S	hortest path routing.			[14M]		
(ł	o)Explain C	ount-to-Infinity Proble	m.				
		(OR)					
6. I	Explain the	following Protocols:					
	(a) RARP	(b) DHCP					
		<u>SF</u>	ECTION-IV				
7.(a	a) Explain T	CP Segment header.			[14M]		
(ł	o) Explain 7	CP Congestion Contro	ol.				
		(OR)					
8. I	Explain Tra	nsport layer Connection	n Establishmei	nt and Connecti	on Release.		
		<u>SI</u>	ECTION-V				
9.(8	a) Explain F	RSA Algorithm.			[14M]		
(ł	o) Explain A	Application Layer Para	digms.				
		(OR)					
10.	Explain the	e following					
(a) WWW	(b) HTTP	(c) DNS	(d) E-Mail	(e) TELNET		