Reg. No.								
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B.Tech. DEGREE EXAMINATION, MAY 2024

Sixth Semester

18ECC303J - COMPUTER COMMUNICATION NETWORKS

(For the candidates admitted from the academic year 2018-2019 to 2021-2022)

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(i) Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

e: 3	hours	3			Max. I	Marl	ςs: 1	00
		рарт	$A (20 \times 1 = 20 \text{I}$	Marks)	Marks	BL	co	PC
			ver ALL Question					
1	The			2.3 frames is bytes.	1	1	1	12
1.				1518 bytes.				
	` '	1500 4500	` '	8192				
	(0)	4300	(2)	01)2				
2.		is device that op	erates in physica	al layer.	1	1	1	7
	(A)	Router		Switch				
15	(C)	Bridge	. ,	HUB				
2	DOT	NT in annie 1	. i		1	1 *	1	7
3.			ning network.	Datagram				
	` '	Circuit	• •	Datagram Virtual aircuit				
	(C)	Message	(D)	Virtual circuit				
4.		topology uses i	multipoint conne	ection.	1	1	1	7
	(A)	Star	(B)	Ring				
	(C)	Bus	(D)	Mesh				
5	Iden	tify the incorrect pair			1	1	2	3
J		Physical layer –	(B)	Data link layer-Error detection				
	(21)	Synchronization	(D)	Buttu mini tayon Biron detection				
	(C)	Network layer – Rou	iting (D)	Transport layer - Host-to-hos	st			
	(0)	Treewell layer 100	(-)	delivery				
6.		error(s) can	be corrected by	a code with d_{\min} =4.	1	2	2	3
	$\overline{(A)}$	One		Two				
		Three		Four				
					.1 1	2	2	3
7.				lergoes error and flow contro	ol ¹	2	2	J
		hanisms, comprising s						
	` ′	U-frames	` '	I-frames				
	(C)	S-frames	(D)	T-frames				
Q	Vulr	nerable period in CSM	IA/CD is equal t	0	1	2	2	3
ο.								
σ.		Buffering delay	(B)	Transmission delay				

9.	is the class C default ma	ask.		1	1	3	3
	(A) 255.0.0.0	(B)	255.255.0.0				
	(C) 255.255.255.0	, ,	255.255.255.255				
10.	What type of service is provided wh			1	2	3	3
	(A) Maximize reliability	(B)	Maximize throughput				
	(C) Minimize delay	(D)	Minimize cost				
11.	is not a solution fo	r cou	nt-to-infinity problem in DVR	1	2	6	5
	algorithm.		no to mandy process in 2 120				
	(A) Defining infinity	(B)	Bit stuffing				
	(C) Split horizon		Split horizon with poisonous				
		()	reverse				
12	An arganization is arouted a blo	ols of	address where one address is	1	3	3	3
12.	An organization is granted a blo 127.30.2.64/20. The organization						
	prefix length?	noods	To Subsets. What is the Subset				
	(A) /10	(B)	/02				
	(C) /30	(D)					
13.	- 		equence number in TCP.	1	2	4	7
	(A) Data	. ,	SYN				
	(C) FIN	(D)	ACK				
14.	UDP is not suitable for			1	2	4	7
	(A) Multicasting	(B)	SNMP				
	(C) RIP	` '	FTP				
		, ,					
15.	The SYN flooding attack belongs to			1	2	4	3
	(A) Denial of service attack	` '	Traffic analysis attack				
	(C) Physical attack	(D)	Snooping attack				
16.	control keeps the load	below	the network capacity.	1	2	4	3
	(A) Flow		Error				
	(C) Congestion		Priority				
						-	,
17.	Trivial FTP (TFTP) is built over			1	1	5	3
	(A) IP	` ′	FTP				
	(C) HTTP	(D)	UDP				
18.	For p=11 and q=19, choose e=17.	Apply	RSA encryption find cipher text	1	3	5	3
	of plain text of 5.	11-7	J				
	(A) 23	(B)	56				
	(C) 80	(D)	92				
1.0	CLOTT:			1	2	5	3
19.	SMPT is aprotocol		D11	1	۷	ر	J
	(A) Push (C) Push and pull	` '	Pull Neither push nor pull				
	TO J. FUSH ZURU DUU	4 1 7 1	ENGLISCO DUNO DOLONO				

(OR)	
00 00 05 17	
fields. fields. find describe the fi	Inction
b. Describe the persistence and back off procedures with neat flow diagrams. 30. a.i. Draw the IPv4 datagraphs	of CSMA/CD protocol 12
b. Describe the	frame formats. 12 2 1 12 12 2 2 3
b. List the types of ethernet and specify their features 29. a. Explain the functions of HDLC protocol with neat	
b. List a.	or 12 2 1 7
28. a. Draw the token ring frames formats and briefly b. List the token from the company to the	y explain the working of 12
28. a. Draw the token ring from	Marks BL CO PO
PART - C (5 × 12 = 60 Marks Answer ALL Questions	
PART-CG	4 2 5 3
y munager ar	agents in SNMP?
27. What is SNMP? What are meant by manager ar	3 4 3
27. What is san -	ctioning services due to TCP 4 3 4 3
26. Justify: Today's traffic intensive internet functions27. What is SNMP2 was a specific intensive internet functions	rtioni
25. An address in a given block is 180.0.17.10. and the number of addresses in the block. 26. Justify: Today's trace.	ring the first and last address 4 3 3 3
and the number of address. is 180.0.17.10	Find the G
25. An address in .	4 2 2 3
23. Compare GO-BACK-N and selective repeat 24. List the advantages of IPv6	The CRC divisior x^3+1 . 4 3 2 3
22. Find the codeword of the data "11001001" 23. Compare GO-BACK-N and selective reserved.	Using the CDG
21. Define the parameters used to measure the 22. Find the codeword of the data "110010"	network performance
21. Define the parameters used to	Questions Marks BL CO PO
PART - B (5 \times 4 = Answer ANY FIVE	20 Marks)
-	
(D) Protocol
(C) Path (B	Post
A) Host C) Poi	
IA transf	

			1 2	6	J	
h	List out th	ne following	4			
₹ 0.	G)	Timers in RIP				
	(ii)	Types of links in OSPF	_	2 4	3	
	(iii)	Types of packets in BGP	12	L		
		describe the functions of the variations				
31. a.	Draw TO	Types of packets in BGP CP segment format and describe the functions of the various fields				
			12	2	4 3	
		how are leaky and token bucket implementation helpful for traffic. Draw their hybrid model with FIFO queuing and highlight its				
b.	Explain	how are leaky and token of how are leaky and token of the how are leaky and the how				2
	silaping.		8	2	5	3
	advanta	ges.			5	3
32. a.i.	. List any	y four SIP request messages and describe their functions.	4	3	,	
ii	Howis	HTTP is similar to FTP?		•	5	3
11	. 110W 15		8	8 2	,	
		(OR)		4 2	2 3	5
b.:	i. Explai	n briefly the various compression techniques.	aot	4		
i	: Illerated	ote the operation of E-mail service when school				
	directl	y connected to the main server.				

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