USN								·			-7+17, (#2115)	18EC71	
		Se	ven	th	Se	me	ster	B.E	L. De	egree Examination, F	eb./Mar.	2022	
Computer Networks													
Time: 3 hrs. Max. Marks: 100													
	Note: Answer any FIVE full questions, choosing ONE full question from each module.												
										<u>Module-1</u>	9		
1	a.	encapsulation and decapsulation processes with necessary figures. (16 Marks)											
	b.												
		2101								OR	)	(01111111)	
2	a.	Explain different physical structures and networks topologies with the help of diagrams.											
	b. Distinguish TCP/IP model with OSI model.									I model		(16 Marks) (04 Marks)	
	0.	DIS	mgu	1511	101	. / 11	mou	51 00 11	11 00	Module-2		(04 Marks)	
3	a.	Describe various fields in the format of an ARP packet and explain how ARP sends request											
	1		resp		. <b>.</b>		0		, , <b>.</b>			(12 Marks)	
	b.	Wri	te sh	ort	note	s on	1 mp	lemer	itatio	n of standard Ethernet topolo	gies.	(08 Marks)	
4	a.	Des	cribe	• the	e cot	ncen	nt of b	it stu	ffing	OR and byte stuffing.		(10 Marks)	
	b.									he help of flowchart.		(06 Marks)	
	c.	List	the	chai	racte	eristi	ics of	wire	less I	LANs.	<u> </u>	(04 Marks)	
Module-3													
5	a. h	<ul> <li>a. Explain working of DHCP [Dynamic Host Configuration Protocol]. (08</li> <li>b. Inspect the following MAC addresses and categories them as unicast, multic broadcast.</li> </ul>										(08 Marks)	
	υ.											, muticast and	
		i) 4A:30:10:21:10:1A											
		ii) 47 : 20 : 1B : 2E : 08 : EE iii) EF : FF : 10 : 01 : 11 : 00											
		/					F:F					(04 Marks)	
	c.								t with	a neat diagram.		(08 Marks)	
				2						OR			
6	a. 1-									f Networks Address Translati		(10 Marks)	
	D.	Ехр	lam	aist	ance	e vec		ouun	g aige	orithm using Bellman ford eq	uations.	(10 Marks)	
7	a.	Des	cribe	e co	nneo	ctior	nless	and c	onne	Module-4 ction – oriented services pro-	vided by the	e transport layer.	
	1										5	(14 Marks)	
	b.	Des	cribe	e the	e gei	nera	l serv	ices j	provid	ded by UDP.		(06 Marks)	
8	a.	Fyn	lain	wor	·kind	r of	Go-h	ack-N	Inrot	OR tocol.		(10 Marks)	
0	b.									ffers in TCP, and explain how	v segments		
		the	bytes	s in	the	buff	èrs.					(10 Marks)	
-		-				6				Module-5			
9	a. b.									of electronic mail. note Logging.		(10 Marks) (10 Marks)	
	υ.	DIS	mgu	1511			oggn	ig an		OR		(IU WIAIKS)	
10	a.	Exp	lain	pers	siste	nt a	nd no	n-pei	sister	nt connections in HTTP.		(10 Marks)	
	b.									e and iterative resolutions.		(10 Marks)	
* * * * *													
	G	5											
		÷											

CBCS SCHEME

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.



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