Code No: 117BY

Time: 3 Hours

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 COMPUTER NETWORKS ****

(Common to ECE, BME)

Max. Marks: 75

R13

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

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	1.a)	Write show	rt notes on inter	faces.					[2]	··· · ·
	b)	Explain th	e characteristic	s of twisted p	air cable.				[3]	
	c)	What is th	e difference be	tween router a	and gateway	?			[2]	
	d)		eant by collisic						[3]	
121			ne design issues						[2]	
			between conne			oriented	networks		[2]	
	g)		out CIDR.	cettomess and	reonneetion	onencu	networks.		[2]	``.v` û '.
	h)	-	e functions of T	Franchort lave	r				[2]	
	i)		out TELNET.	ransport laye	·1 .					
				n nono di ouro					[2]	
	j)	write the a	application laye	a paradigms.					[3]	
					ART-B					
				in interact F	AKI-D				(70) (ireal à la
									(50 Marks)	
	2 ->>	Erralain th			. 100 001	C	1.1			
			e functions of v							
			e term sliding	window. Al	so illustrate	and exp	10.00 SAURAS			
		repeat.						· · · ·	[5+5]	
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			out unguided tr							
	b)	What are t	he different ty	pes of error o	letection me	thods? E	Explain the C	CRC err	or detection	
		technique u	using generator	polynomial x	$x^{4} + x^{3} + 1$ and	data 111	00011.		[5+5]	
	*** **	• k	430 670X	<>. <						
	4.a)	Explain the	e operation of s	ource Routing	g Bridges.					
	b) i	Éxplain the	working of CS	SMÄ/CD.				<u></u>	[5+5]	**** * *,
					OR					
	5.a)	Discuss in	brief the MAC	frame structu	re for IEEE	802.3				
			detail the opera				LOHA.		[5+5]	
			nanna, marandara na managan an T a baran an	and a second and a second s					[0.0]	
	6.a)	Explain the	Dijkstra's Sho	rtest Path Ro	uting Algori	thm with	an example	 	* * * * * * * * * * * * * * * * * * *	
			eneral principles					****	[5+5]	· · · · · · · · · · · · · · · · · · ·
	0)	onve the ge	merur principie.		OR	intoi aigo	Jiitiiii.		[]+]]	
	7.	What is Co	ngestion contro	12 How it is		d in Netu	work I aver?	What is	the role of	
			-		mpicifiente		VOIR LAYCI!	what Is		
		Cnoke pack	tet in managing	congestion?					[10]	
		×	**** ****	***			***		****	····
	*****		···· · · ·	100 S 7	*xxx* \$ *c		· · · · ·	·		S

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		in the error contr in about Reverse		;;;; [[5+5]								
	9.a) How a Expla		the transport layer	?								
		a neat diagram ex		[5+5]								
	10.a) Comp b) Éxplai	are and Contrast in the client serve	the UDP header er model.	and the TCP header.		;;;;; []; [5+5]						
	OR 11.a) What is Electronic mail? Explain the two scenarios of architecture of E-Mail.											
	b) Explai	in the TCP servic	e model.			[5+5]						
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