COMILLA UNIVERSITY

Faculty of Engineering

Department of Computer Science & Engineering

3rd Year 2nd Semester B.Sc. (Engg.) Final Examination '14, Session 2011-2012

Course Code: CSE-328 Course Title: Computer Networks

Full Marks: 60

Time: 3 Hours

Answer any five questions. N. B. Figures in the right margin indicate marks

т. Б. г	gures in the right	margin indicate m	arks	
(La) Show the comparison	between computer	r networks and distrib	outed evetem	[3]
(b) What is ARPANET? Describe briefly the TCP/IP reference model.				[3] [4]
Discuss the goals and uses of computer networks				[3]
now packets sent in	a simple client-	server interaction or	a connection-o	riented
network? - 35 Page				[2]
(a) Explain with figure "	The internet Archit	ecture".	i	[3]
(b) What are the criticisms of TCP/IP model or OSI model?				[3]
(c) Name and define the	functions of a data	link layer. Explain	with diagram ho	w data
link layer works in the inten	net.	N		[5]
(d) What is piggybacking?		φ \$-		[1]
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3. (a) What is Manchester	coding? Convert	t the binary code	11011001 into d	ifferent
Manchester code with timing diagram.				[3]
(b) Explain the Collision Free Protocols.(c) Show the poor performance of static FDM from a simple queuing theory calculater				[3]
(c) show the poor perform	iance of static FD	M from a simple que	euing theory calc	
(d) Discuss about error correcting and detecting code.				[3]
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(a) Find the error of the fo	llowing IP addres	s 111.56.045.78 and	75.45.301.14	[2]
(b) Given the network add	ress 132.21.0.0. I	find the class, the bl	ock and the rang	e of the
addresses.	Cl	·		[3]
(c) A company is granted to	ne site address 18	1.56.0.0 (class B). T	The company nec	eds:1000
subnets. Design the subnets.			'	[3]
(d) A company needs 600 a	ddresses. Which	of the following se	t of class C bloc	k can be
used to form a super net for the		8 - 1		[2]
(i) 198.47.32.0	198.47.33.0	198.47.34.0	_	[2]
(ii) 198.47.32.0	198.47.42.0	198.47.52.0	198.47.62.0	
(iii) 198.47.31.0	198.47.32.0	198.47.33.0	198.47.52.0	
(iv) 198.47.32,0	198.47.33.0	198.47.34.0	198.47.35.0	
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