## COMILLA UNIVERSITY

	Department of Computer Science & Engineering	
<sup>a</sup> Year 2 <sup>nd</sup>	Semester B.Sc. (Engg.) Final Examination 2016 (Secretary	_

Course Code: CSE-328 Full Marks: 60

rinal Examination-2016 (Session: 2013-2014)

Course Title: Computer Networks

Time: 3 Hrs.

			(,	Answer any five	from the follow	ving questions)		
	a)	What inform	is the OSI ation using t	model of ISC he OSI model.	9? Explain hov	v two compute	ers can exchange	5
MAT REEL	b)	Make service	a list of the s	service primitivo	es for implemen	ting a simple co	onnection-oriented	4
	c)	Disting	guish betwee	n TCP and UDI				3
2.	ر(و <sub>ر</sub>	Show	the compari	son between LE	D and semicon	ductor laser.		2
-	/b)	Menti	on the key d	ifference between	en an artificial s	atellite and real	satellite.	2
2	,s}			tched Telephone and explain its n			ructure of a	1+4=5
	Zd)	Comp	are between	circuit switched	l and packet sw	itched networks		3
<i>[3</i> }	(a)			r has a number o ween packets ar	-	ions'-discuss th	e function. Show	2+1=3
•	b)	Descri	be the follow	ving framing tec	hniques:			2+2=4
		(i)	Flag bytes	with byte stuffing	ng.			
		(ii)	Starting an	d ending flags,	with bit stuffing	<b>5.</b>		
	c)	Define	sliding wind	low protocol. E	xplain a simple	x stop-and-wait	protocol.	4
	d)	What is	s piggybacki	ng?			,	1
	a)-]	Find th	e error of the	e following IP a	address 111.56	.045.78 and	75.45.301.14	2
	b) (	Change	the followi	ng IP address fr	om binary nota	tion to dotted-d	ecimal notation.	2
9		100000	01 0000101	1 000010111	1101111			3
~				address 132.21.	0.0, find the cia	iss, the block, a	and the range of the	3
	d) 1	address A comr	es. Jany is grant	ed the site addr	ess 201.70.64.0	(class C). The	company needs six	3
		whate	Decian the	subnets.				
	ex 1	A comp	any needs 6	00 addresses.	Which of the fo	ollowing set of	class C blocks can	2
/	b	e used	to form a st	pernet for this	company?			
				198.47.33.0	198.47.34.0	198.47.62	0	
***				198.47.42.0	198.47.52.0 198.47.33.0			
				198.47.32.0	198.47.33.0			
		(IV)	198.47.32.0	198.47.33.0	17011710110			

5.	a)	Describe the processes used in reliable data transport (rdt) protocol.	3
	b)	How channel bit error and duplicate packets are handled in rdt 2.0?	3
	c)	Describe the NAK free protocol used in rdt 2.2 protocol.	3
	d)	With state diagram discuss the rdt 3.0 protocol used in channels with losses and errors.	3
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<b>6.</b>		What is Bluetooth technology? Explain the Bluetooth architecture. Name five Bluetooth profile.	4
	b)	What is WDMA protocol? Explain the basics of this protocol using example.	4
	•	How Classless Inter Domain Routing (CIDR) addressing principle solves the problem of address exhaustion.	4
			0
7.	• /	Mention five service primitives for a simple transport service.	2
	Jb() \	What is Tunneling? Describe Three-way handshaking method with figures.	1+2=3
	c) I	Define socket. Write down the socket primitives for TCP.	1+2=3
	d) I	Explain the relationship between NSAP, TSAP and Transport Connection.	4
$\binom{8}{8}$	Writ	te short notes on (Answer any four):	3*4=12
	a) Ĺ	DNS	
	b) V	VWW	
ر	· .	luetooth	
	i) E	lectronic Mail	
	_	Commerce	