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SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2012

(CCSS)

Computer Science - Core Course

CS 6B 16 - COMPUTER NETWORKS

Thi	ree Hours	* .		Maximum:	0 Weightage
			Part I	· H	
		An	swer all quest	tions.	
1.	Optical tr	ansmission system has	s co	omponents.	
	(a)	Light source.	(b)	Transmission modem and the d	etector.
	(c)	Both (a) and (b).	(d),	None of the above.	
2.	Frames fr	rom one LAN can be tr	ansmitted to	another LAN via the device:	
	(a)	Router.	(b)	Bridge.	
	(c)	Repeater.	(d)	Modem.	
3.		ies available in the in			
	(i)	Electronic mail; (ii)	Remote login	; (iii) File transfer; (iv) Word	Processing.
	(a)	i, ii.	(b)	i, ii, iii.	
	(c)	i, ii, iv.	(d)	ii, iii and iv.	,
4.	Is the follo	owing statement true	of the Go-bacl	k-N error control strategy?	
	A transmi	tter may send upto N	packets befor	re it receives an acknowledgmen	t.
	(a)	True.	(b)	False.	
5.	A Protocol stacks. It control inf	comprises the PDU pa	exchanged be assed from th	etween the same layer in two se the layer immediately above and	parate protocol ts own protocol
	•	True.	(b)	False.	e e e e e e e e e e e e e e e e e e e
6	Sending a	packet to all destinat	tion simultan	eously is called	
		Broadcasting.		Unicasting.	
		Multicasting.	(d)	None of the above.	, .
		g a traffic flow is calle			
8.	The Client	program must be bou	ınd with a sn	nall library procedure, called th	e
	(a)	Client stub.	(b)	Server stub.	
	(c)	(a) and (b).	(d)	None of the above.	
				a a di	Turn over

9.	The TCP l	neader length is				
	(a)	32 bit words.	(b)	16 bit words.		
	(c)	64 bit words.	(d)	None of the above.		
10.	SCTP mea	ans		•		
	(a)	System Control Transfer P	rotocol.			
	(b)	Stream Control Transfer P	rotocol.			
	(c)	System Control Transmissi	ion Pro	tocol.	•	
	(d)	Stream Control Transmissi	ion prof	tocol.		
11.	A web pag	e is located using a:				
	(a)	Universal Record Linking.	(b)	Uniform Resource Lo	cator.	
	(c)	Universal Record Locator.	(d)	Uniformly Reachable	Links.	
12.	The	is the original message	before	transformation.		
e.		Cipher text.	(b)	Plain text.		
ž.	1	Secret text.	(d)	None of the above.		
			*		$(12 \times \frac{1}{4} = 3)$	
		. · ·	TT			
		Answer a	art II Il <i>ques</i>	tions.		
13.						
14.		ne topology used for connecti				
15.		e purpose of hamming code				
16.		eant by bandwidth?			. *	
17.	. *	virtual circuit?			٠.	
18.	7	the term 'stream' denote?				
19.		4. 2	k?			
	710 1 1 7010					
20.		E		~.	,	
21.	Define Cry	yptanalysis.				
					(0 1 0 -	

Part III

 $(9\times 1=9)$

Answer any five questions.

- 22. Compare Multicasting and Unicasting.
- 23. Give the basic functions of a protocol. Explain.
- 24. Explain Cyclic Redundancy Check.

- 25. Write about bluetooth.
- 26. How the packet cost referred in distance vector and link state routing? Explain.
- 27. What are the fields included in the header of TCP segment format?
- 28. Explain about E-mail.

 $(5 \times 2 = 10 \text{ weightage})$

Part IV

Answer any two questions.

- 29. Explain ISO ISI reference model.
- 30. Discuss sliding window protocol.
- 31. Explain congestion control algorithms.

 $(2 \times 4 = 8 \text{ weightage})$