CISC 7334X Midterm Exam

You may use calculators on this exam. Pick the best answer that fits the question. 5-points per question. Not all of the answers may be correct. If none of the answers fit, write your own answer.

1.	The	purpose of a network mask is:	
	a.	To extract the host MAC address from the Ethernet frame.	
	b.	To add to the host address and get network address.	
	c.	To find the network address.	
	d.	To cover up ugly IP addresses.	
	e.	None of the above, answer is:	
2.	The	correct order of OSI model layers is:	
	a.	Application, Presentation, Session, Transport, Network, Data Link, Physical	
	b.	Application, Presentation, Data Link, Transport, Network, Session, Physical	
	c.	Application, Presentation, Transport, Session, Network, Data Link, Physical	
	d.	Application, Presentation, Session, Network, Transport, Data Link, Physical	
	e.	None of the above, answer is:	
3. Which protocol is used to find the MAC address:			
	a.	DNS	
	b.	SMTP	
	c.	TCP	
	d.	ARP	
	e.	None of the above, answer is:	
4.	Whi	ch if the below is connectionless?	
	a.	FTP	
	b.	SMTP	
	c.	DNS	
	d.	HTTP	
	e.	Answer is:	
5.	The	MAC layer is responsible for:	
	a.	Routing.	
	b.	End to end error correction.	
	c.	Converting ASCII to EBCDIC.	
	d.	Dealing with collissions.	
	e.	None of the above, answer is:	

6. Time Division Multiplexing is applicable when:

	a.	Carrier wavelength propagation delay is lower.			
	b.	Carrier bandwidth exceeds that of our signal.			
	c.	Carrier data rate exceeds that of our signal.			
	d.	Signal to Noise ratio is lower.			
	e.	None of the above, answer is:			
7.	Freq	quency Division Multiplexing is applicable when:			
	a.	Carrier wavelength propagation delay is lower.			
	b.	Signal to Noise ratio is lower.			
	c.	Carrier data rate exceeds that of our signal.			
	d.	Carrier bandwidth exceeds that of our signal.			
	e.	None of the above, answer is:			
8.	Ring	g network,			
	a.	devices connect using a passive interface.			
	b.	devices connect using an active interface.			
	c.	LLC layer handles CSMA/CD			
	d.	all of the above			
	e.	None of the above, answer is:			
9.	On a bus network,				
	a.	devices connect using an active interface.			
	b.	LLC layer handles CSMA/CD			
	с.	devices connect using a passive interface.			
	d.	all of the above			
	e.	None of the above, answer is:			
10.	If ba	andwidth is 12Mhz, and SNR is 7, max capacity of the channel is (in Mbps):			
	e.	Answer is:			
11.		se has 4W of power. We boost signal power to 28W. What's the bandwidth required to eve 90Kbps capacity?			
	e.	Answer is:			
12.	Con	tinuing from previous question, how many voltage levels are required?			
	e.	Answer is:			
13.		andwidth is 2Mhz, and SNR is 15, about how many voltage levels are required to achieve imum capacity			
	e.	Answer is:			

14.	If S	NR is 20, what's the SNR_{dB} ?
	e.	Answer is:
15.	If ba	andwidth is 4Mhz, and SNR_{dB} is 20, what's the error free capacity of the channel?
	e.	Answer is:
16.	intro	are transmitting data at a rate of 1000 bits per second. During transmission, the noise oduces errors so that, on average, 12% of bits are received incorrectly (i.e.: a 0 as 1, or 1). The maximum error free capacity of this channel is (in bps):
	e.	Answer is:
17.	We is:	are transmitting data at 25W, and detect only 20W when recieving, attenuation in decibels
	e.	Answer is:
18.	The	Data-Link layer is responsible for:
	a.	Routing
	b.	Name resolution
	c.	Pinging
	d.	Point to Point transmission
	e.	None of the above, answer is:
19.	Rou	ters operate at:
	a.	Data Link Layer
	b.	Physical Layer
	c.	Session Layer
	d.	Network layer
	e.	None of the above, answer is:
20.	Netv	work switches operate at:
	a.	Data Link Layer
	b.	Session Layer
	c.	Network layer
	d.	Physical Layer
	e.	None of the above, answer is: