CISC 7334X Final 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.	1. Slotted ALOHA improved:				
	a.	Latency Time.			
	b.	Propagation Time.			
	c.	Vulnerable Time.			
	d.	Frame Time.			
	e.	None of the above, answer is:			
2.	The	correct order of OSI model layers is:			
	a.	Application, Presentation, Data Link, Transport, Network, Session, Physical			
	b.	Application, Presentation, Session, Network, Transport, Data Link, Physical			
	c.	Application, Presentation, Transport, Session, Network, Data Link, Physical			
	d.	Application, Presentation, Session, Transport, Network, Data Link, Physical			
	e.	None of the above, answer is:			
3. Polar coding method (as opposed to bipolar coding):					
	a.	cannot synchronize on every bit			
	b.	has a DC component			
	c.	has an AC component			
	d.	requires twice the bandwidth than bipolar coding method			
	e.	None of the above, answer is:			
4. In Sliding Window ARQ, selective reject NAK:					
	a.	Rejects all messages prior to NAK.			
	b.	Retransmits all frames following the NAK.			
	c.	Selectively rejects all messages following NAK.			
	d.	Acknowledges everything prior to NAK.			
	e.	None of the above, answer is:			
5. Length of an Ethernet network is limited by:		gth of an Ethernet network is limited by:			
	a.	packet size			
	b.	data rate			
	c.	CSMA/CD			
	d.	all of the above			
	e.	None of the above, answer is:			

6. Which protocol is used to find the MAC address:

	a.	SMTP
	b.	DNS
	c.	TCP
	d.	ARP
	e.	None of the above, answer is:
7.		Gigabit Ethernet operating in half-duplex mode, the maximum length of the lan is about meters):
	(a)	Answer is:
8.		Fast Ethernet, the CSMA/CD happens during first N of each frame. What is N in mieconds?
	(a)	Answer is:
9.	Freq	quency Division Multiplexing is applicable when:
	a.	Signal to Noise ratio is lower.
	b.	Carrier wavelength propagation delay 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:
10.	Tim	e Division Multiplexing is applicable when:
	a.	Carrier data rate exceeds that of our signal.
	b.	Carrier wavelength propagation delay is lower.
	с.	Signal to Noise ratio is lower.
	d.	Carrier bandwidth exceeds that of our signal.
	e.	None of the above, answer is:
11.	The	MAC layer is responsible for:
	a.	End to end error correction.
	b.	Routing.
	c.	Converting ASCII to EBCDIC.
	d.	Dealing with collissions.
	e.	None of the above, answer is:
12.	Ring	g network,
	a.	LLC layer handles CSMA/CD
	b.	devices connect using a passive interface.
	C	devices connect using an active interface

d. all of the above

	e.	None of the above, answer is:	
13.	On a	a bus network,	
	a.	LLC layer handles CSMA/CD	
	b.	devices connect using a passive interface.	
	c.	devices connect using an active interface.	
	d.	all of the above	
	e.	None of the above, answer is:	
14.	If ba	andwidth is 8Mhz, and SNR is 60, max capacity of the channel is (in Mbps):	
	(a)	Answer is:	
15.		andwidth is 8Mhz, and SNR is 60, about how many voltage levels are required to achieve imum capacity	
	(a)	Answer is:	
16.	tran	calculator if needed) We are transmitting data at a rate of 1000 bits per second. During smission, the noise introduces errors so that, on average, 15% of bits are received incorrectly a 0 as 1, or 1 as 0). The maximum error free capacity of this channel is (in bps):	
	(a)	Answer is:	
17.	We a is:	are transmitting data at 15W, and detect only 10W when recieving, attenuation in decibels	
	(a)	Answer is:	
18.	The	Data-Link layer is responsible for:	
	a.	Name resolution	
	b.	Routing	
	c.	Pinging	
	d.	Point to Point transmission	
	e.	None of the above, answer is:	
19.	Network switches operate at:		
	a.	Network layer	
	b.	Session Layer	
	c.	Data Link Layer	
	d.	Physical Layer	
	e.	None of the above, answer is:	
20.	Rou	ters operate at:	
	a.	Physical Layer	

Data Link Layer

- c. Session Layer
- d. Network layer
- e. None of the above, answer is: