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Reg. No.:					

Question Paper Code: 45802

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Fifth Semester

Information Technology

14UIT502 - COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

	PART A - (10 x	1 = 10 Marks			
1. The portion of physical layer that interfaces with the media access control sub layer called					
	(a) physical signaling sub layer(c) physical address sub layer	(b) physical data sub layer(d) none of these			
2. Which is the only layer of OSI layer that prevents itself from adding its own the data during the data transmission process?					
	(a) Application layer(c) Physical layer	(b) Network layer(d) None of these			
3.	Who is the dispatcher in the network?				

4. FDDI stands for

(a) Bridges

(a) Fiber device data interface (b) Fiber distributed device interface

(c) Hub

(d) Modems

(b) Routers

(c) Fiber distributed device interchange (d) Fiber distributed data interface

5.	Header of datagram in I	Pv4 has					
	(a) 0 to 20 bytes	(b) 20 to 40 bytes	(c) 20 to 60 bytes	(d) 20 to 80 byte	es		
6.	ICMP is primarily used	for					
	(a) error and diagno(c) forwarding	ostic functions	(b) addressing(d) none of these				
7. The port number which is used for Remote procedure call in UDP is							
	(a) 123	(b) 111	(c) 161	(d) 25			
8. The port number which is used for SMTP in TCP is							
	(a) 123	(b) 111	(c) 161	(d) 25			
9.	Find out the order of the	e elements in the UR	L				
	(a) Method, Port, H(c) Host, Method, F	,		(b) Port, Method, Host, Path(d) Method, Host, Port, Path			
10.). Which one of the following is not an application layer protocol?						
	(a) media gateway j(c) resource reserva		(b) dynamic host config(d) session initiation pr	-			
		PART - B (5 x 2	= 10 Marks)				
11.	11. What Recall the Error correction and classify the error correction methods?						
12.	2. State the responsibilities of data link layer.						
13.	13. List out features in OSPF.						
14.	4. What are the advantages of Dynamic Host Configuration Protocol?						
15.	How does MIME enhan	nce SMTP?					
		PART - C (5 x 16	5 = 80 Marks)				
16.	(a) Draw and explain the	ne different layers of	OSI architecture.	(1	6)		
		Or					
	(b) Explain about the e	error correction and d	etection in networks wit	h example. (1	6)		

17.	(a) Explain the physical properties of Ethernet 802.3 with necessary diagram of Eth transceiver and adaptor.				
		Or	(16)		
	(b)	Identify the issues in Ethernet and recall the concepts involved in it.	(16)		
18.	(a)	(i) With example explain IP multicasting.	(8)		
		(ii) How can you avoid congestion in the network transmission? Explain it.	(8)		
		Or			
	(b)	Give a brief note on routing and explain distance vector routing and link routing.	state (16)		
19.	(a)	Explain in detail about TCP with neat sketch.	(16)		
		Or			
	(b)	(i) Discuss about adaptive retransmission.	(8)		
		(ii) Explain various methods used to improve QOS in network transmission.	(8)		
20.	(a)	Discuss the role of a DNS on a computer network.	(16)		
		Or			
	(b)	Elaborate about the RSA algorithm and give an one example.	(16)		