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Reg. No.:					

Question Paper Code: 45802

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

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 interfac	es with the media access control sub layer is				
	(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 header to 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?					

(c) Hub

(d) Modems

(b) Fiber distributed device interface

(d) Fiber distributed data interface

(b) Routers

(a) Bridges

(a) Fiber device data interface

(c) Fiber distributed device interchange

4. FDDI stands for

5.	5. Header of datagram in IPv4 has						
	(a) 0 to 20 bytes	(b) 20 to 40 bytes	(c) 20 to 60 bytes	(d) 20 to 80 b	ytes		
6.	5. ICMP is primarily used for						
	(a) error and diagn(c) forwarding	(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.	3. 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 elements in the URL						
	(a) Method, Port, H(c) Host, Method, I	•		(b) Port, Method, Host, Path(d) Method, Host, Port, Path			
10.	0. Which one of the following is not an application layer protocol?						
	(a) media gateway(c) resource reserva	_	b) dynamic host configuration protocol (d) session initiation protocol				
PART - B (5 x $2 = 10 \text{ Marks}$)							
11.	11. What Recall the Error correction and classify the error correction methods?						
12.	12. State the responsibilities of data link layer.						
13.	13. List out features in OSPF.						
14.	14. What are the advantages of Dynamic Host Configuration Protocol?						
15.	15. How does MIME enhance SMTP?						
PART - C (5 x $16 = 80 \text{ Marks}$)							
16.	16. (a) Draw and explain the different layers of OSI architecture. (16						
Or							
	(b) Explain about the error correction and detection in networks with example. (16)						

17.	(a)	Explain the physical properties of Ethernet 802.3 with necessary diagram of Ethernet transceiver and adaptor.				
		Or	, ,			
	(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)			