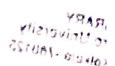




BRAINWARE UNIVERSITY

Term End Examination 2023 Programme - B.Tech.(ECE)-2019/B.Tech.(ECE)-2020 Course Name – Computer Network **Course Code - PCC-EC602** (Semester VI)



Full Marks: 60

a) World area network

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far

	as pract	ricable.]			
1.	Grou (Multiple Choice Choose the correct alternative from the following :		1 x 15=15		
(i)	Identify the following networks extends a private network across public networks.				
(ii)	a) local area networkc) enterprise private networkHeader of a frame generally contains	b) virtual private network d) storage area network	LIBRARY Brainware University Barasat, Kolkey		
(iii)	a) synchronization bytesc) frame identifier	b) addresses d) all of the mentioned	Barasat, Kolkata -700125		
(iv)	a) only network address c) network address & host address Transmission control protocol	b) only host address d) network address & MAC add	dress		
(v)	a) is a connection-oriented protocol c) receives data from application as a single stream An endpoint of an inter-process communication flow a	b) uses a three way handshake to establish a connection d) all of the mentioned across a computer network is called			
(vi)	a) socket c) port A is a TCP name for a transport service access p	b) pipe d) machine oint.			
(vii)	 a) port c) node When using TCP, after a session is open, the application receive before sending an acknowledgement. This beh 	b) pipe d) protocol after a session is open, the applications can adjust the amount of segments they ending an acknowledgement. This behavior is expressed as			
(viii)	a) MTU adjustment c) Windowing Predict the following is a transport layer protocol	b) Flexible send path d) FCS			
(ix)	 a) stream control transmission protocol c) neighbor discovery protocol Determine the address to be consulted to deliver a me running on a host 	b) internet control message protocol d) dynamic host configuration protocol essage to the correct application program			
(x)	a) MAC c) IP Subnet mask in class A has 14 1's. Choose the number	b) Port d) Logical of subsets does it define			
	a) 8 c) 64 Express WAN stands for	b) 32 d) 128			

b) Wide area network

4 (vii	c) Web area network	d) Web access network	
(2)) Determine the following is a fo	b) Bandwidth flooding	
Ž.	a) Vulnerability attack	d) All of the mentioned	
(xiii	c) Connection floodingi) In TDM, indicate slots are furth		
	a) Seconds	b) Frames	
	c) Packets	d) Bits	
(xiv) Multiplexing is used in	<u>_</u>	
	a) Packet switching	b) Circuit switching	
	c) Data switching	d) Packet & Circuit switching	
(xv)	Determine the following class of	of IP addresses is utilized for multicasting	
	a) Class A	b) Class B	
LIBRARY	c) Class C	d) Class D	
LIBRAGO	versity		
LIBRARY Brainware Univ	-700125	Group-B	
Brainware Univ.		(Short Answer Type Questions)	3 x 5=15
			(3)
 Explain IEEE 802.3 frame format. Distinguish between Internet and Intranet. Describe about IP addressing and classification of it. Explain in brief about Network Topologies 			(3)
			(3)
			(3)
6. Define Masking.		(3)	
	3.	OR	(5)
Define the term HDLC.		(3)	
			ν-,
		Group-C	
(Long Answer Type Questions)			5 x 6=30
7. Di	iscuss about the structure and v	vorking of Switched Ethernet	/5 \
7. Discuss about the structure and working of Switched Ethernet. 8. Explain the shortest path routing algorithm with suitable example.			(5)
Explain about Classful Addressing and Classless Addressing.			(5)
10. With suitable example, develop the concept of subneting in class B network.			(5)
11. Explain the adaptive transmission mechanism			(5)
	escribe in detail about guided m		(5)
		OR	(5)
De	escribe the various layers in TCP,		(5)
			(5)