ix	_B	Which of the following describes the function of ARP? It is used to map a 32-bit IP address to a 48-bit ethernet address. It is used to map a 32-bit ethernet address to a 32-bit IP address. It is used to map a 32-bit ethernet address to a 48-bit IP address. It is used to map a 48-bit IP address to a 32-bit ethernet address. In classless addressing, there are no classes but the addresses are still	
,		granted in	
		a) Code b) Section	
		c) Block d) None of the Above	
Q.2	2	An ALOHA network uses 19.2 kbps channel for sending packet of 100 bits long size. What is maximum throughput for Pure ALOHA?	2
	ii.	Define MAC frame format.	3
	iii.	Explain the working of CSMA/CD and CSMA/CA.	5
OR	iv.	Explain IEEE 802 standards and it's variants.	5
0.3	i.	What is NAT? A network administrator subnet the 192.168.10.0/24 network into subnets with /26 masks. How many equal-sized subnets are created? Find the network address, subnet mask and range of each subnet.	8
OR	iii.)	A supernet has a first address of 205.16.32.0 and a supernet mask of 255.255.248.0. How many blocks are in this supernet and what is the range of address?	8
0.4	i.	Differentiate between IPv4 and IPv6.	3
5.70	ii.	Explain working of ARP and RARP.	7
OR	iii.	Write short note on following: (Any three) a. Static and Dynamic channel allocation b. Ethernet performance c. DHCP d. OSPF	7



Enrollment No. 6 N2266 301068

Faculty of Engineering Mid Sem I Examination September - 2022 CS3CO12 Computer Networks -

Programme: B.Tech.

Branch/Specialisation: CSE

Duration:		2 Hrs. Maximum Marks			
Q.1	i.	In cach station is formed to and a late of the cache.			
V.1	**	time slot.	on is forced to send only at the beginning of the	1	
		a) pure ALOHA	13.1		
			b) slotted ALOHA		
	ii.	c) both (a) and (b)	d) neither (a) nor (b)		
	111.	the interference of	are avoided through the use of three strategies:	1	
			contention window, and acknowledgments.	nents.	
		a) CSMA	b) CSMA /CA		
	222	c) CSMA/ CD	d) BRAP		
	iii.			1	
		a) 18.4	b) 18.8		
	-	c) 36.4	d) 36.8		
	iv.				
		station.			
		a) 0	-b) 1		
		c) 2	d) 3		
	V.	What Ethernet frame con		I	
		a) MAC address	-b) IP address		
		c) Default mask	d) Network address		
	vi.		notation for the subnet mask 255.255.255.224?	1	
		a) /25	b) /26		
		c) /27	d) /28		
	vii.	porrowed from the host portion of an address to	1		
	accommodate a router with five connected networks?				
		a) Two	b) Three		
		c) Four	_d) Five	1	
	viii. In the Network Address Translation (NAT), all the outgoing packet				
		through			
		a) NAT Router	b) Global Router		
		_e) Local Router	d) Private Router		