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· ·		e: Computer Networks e: 4TE05CNW1	Branch: B.Teo	eh (CE)	
Semeste		Date: 16/12/2021	Time: 11:00 T		Marks: 70
(2) (3)	Use o Instru Draw	of Programmable calculator & a actions written on main answer land the neat diagrams and figures (if not me suitable data if needed.	book are strictly to be	obeyed.	ohibited.
Q-1		Attempt the following questi	ons:		(14)
	a)	Class A hasbit of NetID			
	b)	Define:Computer Network.			
	c)	Which of the following TCP/I form one machine to another?	•	transferring	files
	d)	A) FTPB) SNMPC) SMTPD) Which of the following TCP/I form one machine to another?	P protocols is used for	J	mail
	e)	A) POP2 B) SNMP Which layers of the OSI dete user?	rmines the interface o	·	with the
	f)	A) Application B) Network In atopology, if the has n-1 ports for cables.	re are n devices in a r	network, eac	h device
	g)	A) Bus B) StarC) Discuss Half duplex with exar	The state of the s	Ring	
	h)	Subnet mask 255.0.0.0 belong	-		
	i)	What is framing?	·		
	j)	Which service is provided by I	HTTP?		
	k)	What is virtual circuit network			
	1)	What is Gateway?			



m) What is subnet mask?

n) What is Protocol?

Attempt any four questions from Q-2 to Q-8 $\,$

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Q-2		Attempt all questions				
	a)	Explain OSI\ISO reference model and its function.	07			
	b)	Differentiate between Connection oriented and Connectionless services.	07			
Q-3		Attempt all questions				
	a)	Explain CSMA/CD protocol in detail.	07			
	b)	Write short note on DNS.	07			
Q-4		Attempt all questions				
	a)	What is network topology? Explain different types of network topology.	07			
	b)	Explain CRC code generation with example.	07			
Q-5		Attempt all questions				
	a)	Explain TCP segment structure and justify the importance of its field values.	07			
	b)	What is Guided Transmission Media? Explain Twisted Pair, Coaxial Cable, & Fiber Optics.	07			
Q-6		Attempt all questions				
	a)	Write short note on HDLC.	07			
	b)	Explain functionality of Bridge, Hub, Switch, Router and Repeater.	07			
Q-7		Attempt all questions				
	a)	Write short note on BGP.	07			
	b)	Explain IPv4 datagram format and importance of each field.	07			
Q-8		Attempt all questions				
	a)	Write short note on X.25 and ATM.	07			
	b)	Explain Distance Vector routing with example.	07			

