CSE 421 Quiz 1

Total marks: 15 Time: 20 minutes

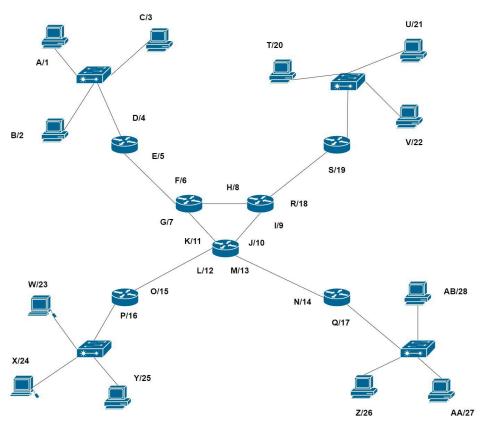
ID:			Name:	Section:					
1. Choose the correct answer: [1 x 5 = 5]									
	i.	How	many layers can a router be involved with?						
		Α	. 1						
		В	.,2						
		\checkmark	. 3						
		D	. 4						
	ii.		n of the following PDU is encapsulated in a frame?						
			. User datagram						
			. Segment						
			. Packet						
		_	. Bits						
	iii.		should be the minimum size of a data link layer header?						
			. 48 bits						
			. 96 bits						
			. 48 bytes						
			. 96 bytes						
	iv.		n layer of the OSI model is responsible for ensuring reliabl	e end-to-end					
			nunication and error recovery?						
			. Physical						
			Data Link						
			. Transport . Session						
	.,								
	V.		n is not a functionality of the transport layer? . Ærror Control						
			. Host to host delivery						
			. Connection Control						
			. Segmentation						
		ט	. Ocymentation						

2. Provide addressing for data transmission for the following network using the following information: **[10]**

The **numbers** represent **IP addresses**. The **capital case characters** represent **MAC addresses**. '1' wants to send an email to '27'. '1' has two processes running. Email running on port 'e' and a web service running on port 'w'. '27' has only one email process running on port 't'.

Please indicate the path you choose for routing the data in the diagram below. Your answer

should reflect the path you take for forwarding the packets. Show the addressing for all the hops.



DS+ MAC	She MAC	DIT IP	Spe TP	DS9 point	Sport
		27			e
		27	-		C
	G	27	(
N		27	(1	
AA		27			
\		1	V	1	