## **CSE320: Data Communications**

Quiz-1 (Set – B)

**Total Marks: 15** 

Name:	ID:	Sec:
1. "ABC Corporation", a medium-sized planning to upgrade its network infrastruct ABC Corporation is looking for a cost-effe and Bus topologies address the specific net ABC Corporation? [2.5]	ture. Given the company's arective network infrastructure	nticipation of yearly revenue loss, e. How can a combination of Star
2. Five devices are connected using mesh a directions (simplex mode), how many physical directions (simplex mode).	1	
<ul> <li>3. Match the following to one or more layer</li> <li>determining which device has</li> <li>accomplishing source-to-desting</li> </ul>	control over the link at any	

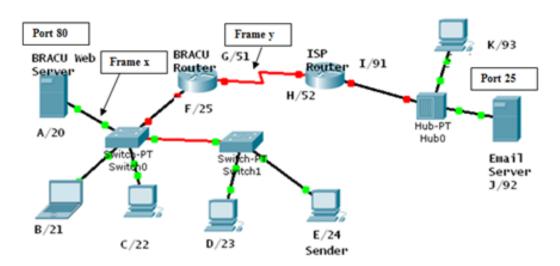
connection control using either connection-oriented or connectionless mechanism

adding sequence number

• transforming the original information to another form

- 4. Identify each of the below scenarios to an appropriate network type (PAN, LAN, WAN, MAN) [2.5]
  - You and your friend are communicating via email using BRACU PCs and both of you are in different floors of BRACU campus
  - You are sending your class schedule using your mobile to your friend who is sitting beside you in a restaurant
  - PCs in Ayesha Abed Library can communicate with PCs at BRAC Center (Both are in different networks)
  - You are sending an image via Messenger using your mobile to your friend who lives in Dhaka and your home is in Chittagong
  - A multinational company has a number of offices located in different countries and all offices are connected, so office staff can easily communicate with one another

**5.** Complete the frames (X & Y) given below with appropriate port, IP and MAC addresses. The sender Host E has two applications running; one for email with port number 52220 and the other for accessing the web server with port number 60629. The frame X is intended for the BRACU Web server and frame Y is intended for the Email Server. (MAC addresses are denoted using alphabets and IP addresses are denoted using numbers) [5]



Frame X

D. Mac	S. MAC	D. IP	S. IP	D. Port	S. Port	Data	Trailer

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4	Lanc	

D. Mac	S. MAC	D. IP	S. IP	D. Port	S. Port	Data	Trailer