## **CSE320: Data Communications**

Quiz-1 (Set - B)

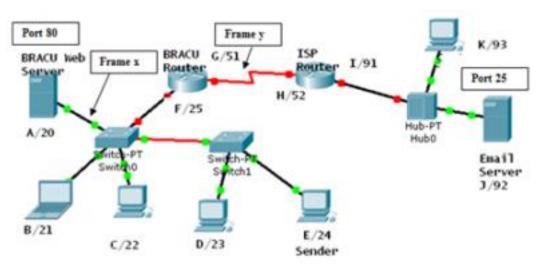
**Total Marks: 15** 

Name:	ID:	Sec:
is planning to upgrade its r revenue loss, ABC Corporat	edium-sized company with offices dis network infrastructure. Given the co ion is looking for a cost-effective net specific need of building a cost-effective	ompany's anticipation of yearly twork infrastructure. How can a
	using mesh topology. If each physica ex mode), how many physical links ar	
mention two protoco • Addin	e or more layers of the OSI protocol sols associated with that layer. [2.5] ag sequence number ection control using either connection	

mechanism

• Accomplishing source-to-destination delivery

- **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 a 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 51420 and the other for accessing the web server with port number 62617. Frame x is intended for the sender E 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

Frame y

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