

CSE 320 (Data Communication) | Summer 2023

QUIZ 1 | SECTION- 01

Set B









































Student ID: Full Marks: 15 Name: Duration: 30 minutes

[No extra sheet will be provided. Write your answer to the questions in the delivered pages.] [Figures on the right denote the marks of the corresponding question.]

1. Match the following to one or more layers of the **OSI model**: [5]

a) Route determination	
b) Converting the data from Bangla to Chinese	
c) Creating user datagrams	
d) Responsibility for handling frames between adjacent nodes	
e) Transforming bits to electromagnetic signals	

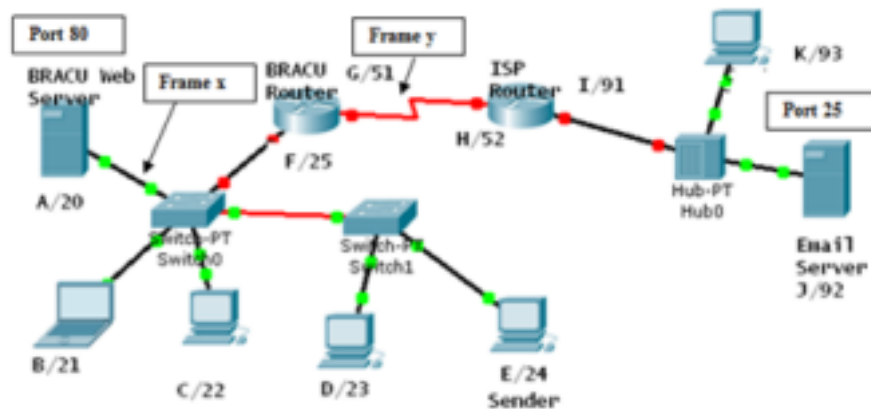
2. Answer the following questions:

- a. All of us know by now that performance is inversely related to delay. When you use the Internet, which of the following applications are more **sensitive to delay**? Write your answer as “” or “”. [3]

i. Facebook Live	ii. Transferring Files	iii. Online Banking

- b. Draw a hybrid topology with a star backbone and three-ring networks. [2]

- c. 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 63170 and the other for accessing the web server with port number 71033. The frame x is intended for the BRACU Web server and frame y is coming from the Email Server. (MAC addresses are alphabets and IP addresses are numbers) [5]



Frame X

D. Mac	S. MAC	D. IP	S. IP	D. Port	S. Port

Frame Y

D. Mac	S. MAC	D. IP	S. IP	D. Port	S. Port