BRAC UNIVERSITY Department of Computer Science and Engineering

Examination: Semester Midterm

Duration: 1 hour 10 min

Semester: Summer 2023

Full Marks: 30

CSE 320: Data Communications

Answer the following questions. Figures in the right margin indicate marks.

SET A

Name: ID:	Section:
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1. [CO1]	a)	Suppose there are 4 buildings in BRACU's new campus. Buildings are connected using bus topology. Each building has 3 CSE Labs. Each Lab has 4 computers. The computers are connected using mesh topology but the Labs of a single building are connected using star topology. Draw the BRACU new campus hybrid topology. How many links will there be (links are using full-duplex transmission mode)?	[5]
	b)	 Identify the name of the TCP/IP model layers based on the following functionalities. Enables resource sharing and remote file access among network users. Responsible for converting data into signals for transmission over a physical medium. Responsible for establishing and terminating communication sessions. Ensure reliable hop to hop transmission. 	[2]
	c)	Identify at least 2 differences amongst logical, physical and port addresses. Explain with an example why all these addresses are needed?	[3]







