Dashboard ▶ My courses ▶ 2401-COL334 ▶ 30 July - 5 August ▶ Quiz1 Started on Friday, 2 August 2024, 9:02 AM State Finished Completed on Friday, 2 August 2024, 9:08 AM Time taken 6 mins 13 secs **Grade 6.00** out of 20.00 (**30**%) Question 1 Congestion control needs to be implemented in a circuit-switched network Correct Select one: Mark 2.00 out of True 2.00 False 🗸 Question 2 Select all layers that are found in IP protocol stack. Incorrect Select one or more: Mark 0.00 out of a. Network layer 🗸 2.00 b. Presentation layer X c. Session layer X d. Link layer 🗸

## Ouestion 3 Incorrect Mark 0.00 out of 2.00 Consider a circuit switched network with each link having a single circuit of bandwidth 100 kbps. What is the transmission delay for sending 1 kbit data? Select one or more: a. 0.02s b. 0.01s

## Question 4

Incorrect

Mark 0.00 out of 2.00

In-network support for reliability is useful because of the following reasons (select all that apply):

Select one or more:

c. 0.04s

d. 0.03s 💢

- a. Better performance
- b. Simplifies the router design
- c. Reduces overall cost
  - d. Reduces application burden 🗶

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Correct

Mark 2.00 out of 2.00

<ul> <li>Transport-layer protocol encapsulates application-layer message, M, with transport layer-layer header (h1) to create a transport-layerx</li> <li>Network-layer protocol encapsulates transport-layerx with network layer header(h2) to create network layery</li> </ul>
<ul> <li>Link-layer protocol encapsulates network layer with with link-layer header(h2) to create link layer z</li> </ul>
x, y, z are:
Select one or more:
<ul> <li>✓ a.</li> <li>Segment, Datagram, Frame</li> <li>✓</li> </ul>
b. Frame, Segment, Datagram
C. Datagram, Frame, Segment
d. Frame, Datagram, Segment

## Question 6

Incorrect

Mark 0.00 out of 2.00

Which statements are true for end-to-end design principle?

Select one or more:

- a. It provides greater flexibility in implementing some network services
- b. It improves the security of the network X
- c. It simplifies application design
- d. It simplifies router design

Question 7 Correct Mark 2.00 out of 2.00	Network layer is responsible for providing host-to-host connectivity  Select one:  True ✓ False
Question 8 Incorrect Mark 0.00 out of	Select all that statements that are true for packet switching.
2.00	Select one or more:
	<ul> <li>a.</li> <li>Guarantees fixed bandwidth for the entire duration of data transfer</li> <li>X</li> </ul>
	c. Resource reservation is done before transmission
	d. Provides best effort delivery

# Ouestion 9 Incorrect Mark 0.00 out of 2.00 Consider the above network topology, where R = 100 kbps. Assume you want to send a data of size 1kbit, what is the total transmission delay in a packet switching approach? Select one or more: a. 0.01 seconds b. 0.04 seconds c. 0.02 seconds d. 0.03 seconds

## Question 10

Incorrect

Mark 0.00 out of 2.00

Consider the following two statements:

S1: Time Division Multiplexing is an example of Circuit Switching

S2: Frequency Division Multiplexing is an example of Packet Switching

### Select one or more:

- A. Both statements are correct X
- B. S1 is incorrect but S2 is correct
- C. Both statements are incorrect
- D. S1 is correct but S2 is incorrect