

Quiz-1 Results for Gabriel Warkentin

Score for this quiz: **8** out of 8

Submitted Feb 10 at 9:06pm

This attempt took 15 minutes.

Question 1

1 / 1 pts

Suppose users share a 427 Mbps link, and each user transmits continuously at 47 Mbps when transmitting.

If circuit switching is used, what is the maximum number of users that can be supported?

Notes:

number of users can only be whole number

Mbps = Megabits per second

1 Mega = 10^6

Correct!

Correct Answer

9

Question 2

1 / 1 pts

What is the transmission delay in seconds for a 24 Gigabytes data to be sent over a 300 Mbps link?

Give your answer **in seconds** and round it to two decimal digits after the decimal point.

Notes:

1 byte = 8 bits

Mbps = Megabits per second

1 Giga = 10^9

1 Mega = 10^6

Correct!

640

Correct Answer

640 margin of error +/- 0.01

Question 3

1 / 1 pts

Given a packet-switching with 97 users. Each user transmits 8 percent of the time. What is the probability that any 8 users (of the total 97 users) are transmitting and the remaining users are not transmitting? Round your answer to 3 digits after the decimal point.

Correct!

0.145

Correct Answer

0.145 margin of error +/- 0.001

Question 4

1 / 1 pts

With respect to the Internet, which equipment are considered belonging to the network core?

☐ client computers

☒ routers, switches

☐ server computers

☐ both client and server hosts

Correct!

Question 5

1 / 1 pts

Packet loss may be caused by...

- ☐ output link transmission rate is too high
- ☐ very long link distance
- ☐ none since in reality packet loss never happens
- ☒ overflow of the queue buffer

Correct!

Question 6

1 / 1 pts

In _____ each user is allocated its own band, and can transmit continuously at maximum rate of that narrow band.

- ☐ TDM
- ☒ FDM
- ☐ QAM
- ☐ PSK

Correct!

Question 7

1 / 1 pts

The internet is a _____.

Correct!

- ☒ network of networks
- ☐ circuit switching network
- ☐ local area network
- ☐ large database

Question 8

1 / 1 pts

In the internet, applications use services provided by the _____ layer.

- ☐ physical
- ☒ transport
- ☐ link
- ☐ network

Correct!

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