

**Started on** Monday, 24 January 2022, 11:32 AM  
**State** Finished  
**Completed on** Monday, 24 January 2022, 11:41 AM  
**Time taken** 9 mins 12 secs  
**Marks** 8.00/8.00  
**Grade** 2.86 out of 2.86 (100%)

**Question 1**

Correct

Mark 1.00 out of 1.00

What is a network bandwidth?

Select one:

- ☒ a. the maximum speed of data transfer ✓
- ☐ b. the maximum time of a transmission delay
- ☐ c. the maximum packet loss
- ☐ d. the maximum size of a data packet
- ☐ e. the maximum absolute time of data transfer

Your answer is correct.

The correct answer is: the maximum speed of data transfer

**Question 2**

Correct

Mark 1.00 out of 1.00

Do you agree that in computer networks the transmission delay (also called as store-and-forward delay) is affected by the physical distance between communicating hosts?

Select one:

- ☒ a. Disagree ✓
- ☐ b. Agree

Your answer is correct.

The correct answer is: Disagree

## Question 3

Correct

Mark 1.00 out of 1.00

The Open System Interconnection reference model (OSI model) identifies 7 abstraction layers for a communication system. List them in a top-down approach (assume that Application is Layer 7):

- |         |   |   |
|---------|---|---|
| Layer 7 | <input type="text" value="application"/>  | ✓ |
| Layer 6 | <input type="text" value="presentation"/> | ✓ |
| Layer 5 | <input type="text" value="session"/>      | ✓ |
| Layer 4 | <input type="text" value="transport"/>    | ✓ |
| Layer 3 | <input type="text" value="network"/>      | ✓ |
| Layer 2 | <input type="text" value="link"/>         | ✓ |
| Layer 1 | <input type="text" value="physical"/>     | ✓ |

Your answer is correct.

The correct answer is: Layer 7 → application, Layer 6 → presentation, Layer 5 → session, Layer 4 → transport, Layer 3 → network, Layer 2 → link, Layer 1 → physical

## Question 4

Correct

Mark 1.00 out of 1.00

Do you agree that nowadays Ethernet is the most widely used technology for wireless computer networks?

Select one:

- ☐ a. Agree
- ☒ b. Disagree ✓

Your answer is correct.

The correct answer is: Disagree

## Question 5

Correct

Mark 1.00 out of 1.00

There are various request methods supported by HTTP protocol. Match the methods listed below to their purpose:

- |                                     |        |   |
|-------------------------------------|--------|---|
| To delete resources on a web server | DELETE | ✓ |
| To get a webpage                    | GET    | ✓ |
| To upload a file to a web server    | POST   | ✓ |

Your answer is correct.

The correct answer is: To delete resources on a web server → DELETE, To get a webpage → GET, To upload a file to a web server → POST

## Question 6

Correct

Mark 1.00 out of 1.00

Recall the key network performance metrics, namely latency, throughput, and bandwidth. Match terminology below to its meaning:

The time it takes to transfer data from sender to destination:

Latency



A theoretical upper bound on the rate of a data transfer in a network, that considers various aspects, including the physical properties of a communication medium (e.g. an optical fibre, or copper wires)

Bandwidth



The actual rate of data transfer in a network, between a particular pair of source and destination hosts:

Throughput



Your answer is correct.

The correct answer is:

The time it takes to transfer data from sender to destination: → Latency,

A theoretical upper bound on the rate of a data transfer in a network, that considers various aspects, including the physical properties of a communication medium (e.g. an optical fibre, or copper wires) → Bandwidth,

The actual rate of data transfer in a network, between a particular pair of source and destination hosts: → Throughput

## Question 7

Correct

Mark 1.00 out of 1.00

Do you agree with the following statement?

Data packets that are exchanged between two particular hosts in a network are always transmitted through the same set of routers.

Select one:

- ☐ a. Agree
- ☒ b. Disagree ✓

Your answer is correct.

The correct answer is: Disagree

## Question 8

Correct

Mark 1.00 out of 1.00

Different types of network cables are used in computer networks. Chose the one providing the fastest data transmission rate:

Select one:

- ☐ a. coaxial
- ☐ b. copper
- ☒ c. fiber optic ✓
- ☐ d. all listed choices have a similar transmission rate

Your answer is correct.

The correct answer is: fiber optic