

Introduction to Computer Networking

The TCP/IP Five-Layer Network Model

The Basics of Networking Devices

The Physical Layer

The Data Link Layer

Graded Assessments

✔ Reading: Module 1 Glossary

10 min

✔ Reading: Graded Plugin

10 min

✔ Quiz: Layers in Networking Models

1 question

✔ Quiz: Networking Basics

12 questions

🎉 Congratulations! You passed!

Grade received 91.66%

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Due May 21, 11:59 PM +08

Attempts 3 every 24 hours

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91.66%

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1. Which protocol is responsible for ensuring data is reliably delivered?

1 / 1 point

Try again

☒ Transmission Control Protocol (TCP)

☐ Dynamic Host Configuration Protocol (DHCP)

☐ Internet

☐ User Datagram Protocol (UDP)

☒ Correct

👍 Like

👎 Dislike

📄 Report an issue

2. Select the right order of the TCP/IP Five-layer network model.

1 / 1 point

☒ Physical Layer > Data Link Layer > Network Layer > Transport Layer > Application Layer.

☐ Physical Layer > Network Layer > Data link Layer > Transport Layer > Application Layer

☐ Physical Layer > Data link Layer > Transport Layer > Network Layer > Application Layer

☐ Physical Layer > Application Layer > Data link Layer > Network Layer > Transport Layer

☒ Correct

3. Which layer in the Transmission Control Protocol/Internet Protocol (TCP/IP) model is responsible for defining a common way to interpret signals so network devices can communicate?

1 / 1 point

☒ Data link

☐ Network

☐ Application

☐ Transport

☒ Correct

4. What type of cable communicates binary data by changing the voltage between two ranges?

1 / 1 point

☒ Copper

☐ Silver

☐ Gold

☐ Fiber

☒ Correct

5. What is a network with only a single device at each end of the link called?

0 / 1 point

☒ A switching hub

☐ A twisted pair network

☐ A collision domain

☐ A point to point connection

☒ Incorrect

Review the video on [hubs and switches](#).

6. Which protocol do routers use to determine the optimal path to forward traffic?

1 / 1 point

☒ Border Gateway Protocol (BGP)

☐ User Datagram Protocol (UDP)

☐ Internet Protocol (IP)

☐ Transmission Control Protocol (TCP)

☒ Correct

7. Which of the following is something that requests data from a server?

1 / 1 point

☐ Router

☐ Hub

☐ Switch

☒ Client

☒ Correct

8. A Local Area Network (LAN) uses Category 6 cabling. An issue with a connection results in a network link degradation and only one device can communicate at a time, but information can still go in either direction. What is the connection operating at?

1 / 1 point

☒ Half Duplex

☐ Partial

☐ Simplex

☐ Full Duplex

☒ Correct

9. Which of these devices contains many network ports, but does no other work than being a container for cable endpoints?

1 / 1 point

☐ Router

☐ Hub

☒ Patch Panel

☐ Switch

☒ Correct

10. Fill in the blank: The most common data link layer protocol for wired connections is ____.

1 / 1 point

☐ UDP

☒ Ethernet

☐ TCP

☐ BGP

☒ Correct

11. Fill in the blank: MAC address stands for ____ address

1 / 1 point

☐ Maximum Allowable Cost

☐ Message Authentication Check

☐ Memory Access Controller

☒ Media Access Control

☒ Correct

12. Where in an ethernet frame will you find a Virtual Local Area Network (VLAN) header?

1 / 1 point

☐ Frame Check Sequence

☒ Before the EtherType field

☐ Payload

☐ Preamble

☒ Correct