

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

Grade received 100%

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To pass 80% or higher

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# Networking Basics

Quiz • 1h 20m

🎉 Congratulations! You passed!

Submit your assignment

Due May 21, 11:59 PM +08

Attempts 3 every 24 hours

1 / 1 point

Try again

1. True or false: Security assignments are to ensure that data is reliably delivered.

☒ True

☐ False

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2. Which of the following is the fifth layer of the TCP/IP Five-layer network model.

☐ Data Link

☒ Application

☐ Transport

☐ Physical

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3. Which layer of the network model includes specifications for cables and connectors and how signals are sent over these connections?

☒ Physical

☐ Transport

☐ Data link

☐ Network

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

☒ Copper

☐ Gold

☐ Fiber

☐ Silver

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

☒ A point to point connection

☐ A twisted pair network

☐ A switching hub

☐ A collision domain

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6. Which device forwards data and operates at layer three of the Transmission Control Protocol/Internet Protocol (TCP/IP) model?

☐ Switch

☐ Hub

☐ Client

☒ Router

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7. True or false: Most devices are purely a server or a client.

☐ True

☒ False

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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?

☐ Full Duplex

☐ Simplex

☒ Half Duplex

☐ Partial

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9. Fill in the blank: There will almost always be some troubleshooting data available through\_\_\_\_\_.

☐ Stop LEDs

☐ Action LEDs

☒ Port lights

☐ Wire lights

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

☐ UDP

☒ Ethernet

☐ BGP

☐ TCP

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11. You need to identify the manufacturer of a network interface. Where will you look for this information?

☐ The first octet of a Media Access Control (MAC) address

☒ The first three octets of a Media Access Control (MAC) address

☐ The fourth octet of a Media Access Control (MAC) address

☐ The last octet of a Media Access Control (MAC) address

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

☐ Payload

☒ Before the EtherType field

☐ Preamble

☐ Frame Check Sequence

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