**WEEK 1**

**QUIZ**

1. A device that knows how to forward traffic between independent networks is known as a \_\_\_\_\_.

router

switch

hub

node

MAC address stands for \_\_\_\_ address.

media access control

message authentication check

maximum allowable cost

memory access controller

The technique that allows you to have multiple logical LANs operating on the same physical equipment is known as a \_\_\_\_\_.

collision domain

VLAN

data link layer

protocol

The first part of an Ethernet frame is known as the \_\_\_\_\_.

frame check sequence

data packet

preamble

MAC address

UDP stands for \_\_\_\_\_\_.

Unified Data Pathway

Unknown Data Protocol

Universal Data Protocol

User Datagram Protocol

What is the fifth layer of the Transmission Control Protocol/Internet Protocol (TCP/IP) model?

Data link

Network

Transport

Application

Which two protocols work at the transport layer and ensures that data gets to the right applications running on those nodes?



Dynamic Host Configuration Protocol (DHCP)



Internet Protocol (IP)



User Datagram Protocol (UDP)

Correct



Transmission Control Protocol (TCP)

Correct

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

Fiber

Gold

Silver

Copper

What will allow you to form point-to-point networking connections?

Hub

Switch

Cables

Router

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

Hub

Client

Switch

Router

How many wires are in a standard Category 6 cable?

4

8

6

10

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. What is the connection operating at?

Half Duplex

Full Duplex

Partial

Simplex

Which layer abstracts away the need for any other layers to care about what hardware is in use?

Data link

Physical

Transport

Network

What does the letter B represent in a Media Access Control (MAC) address?

9

10

11

15

What section in an ethernet frame will you find a Virtual Local Area Network (VLAN) header?

Payload

EtherType field

Frame Check Sequence

Preamble