Started on	Wednesday, 18 September 2024, 4:37 PM
State	Finished
Completed on	Wednesday, 18 September 2024, 4:40 PM
Time taken	2 mins 42 secs
Grade	**9.00** out of 10.00 (**90**%)

Question **1**

Correct

Mark 1.00 out of 1.00

The IEEE 802.1Q 32-bit VLAN tag is required to be added to frames with source and destination ports on the same switch.

Select one:

○ True

◉ False ✔

Question **2**

Correct

Mark 1.00 out of 1.00

A VLAN looks like a single LAN and all VLAN members will see broadcast packets sent by other members.

Select one:

◉ True ✔

○ False

Question **3**

Correct

Mark 1.00 out of 1.00

Gigabit Ethernet 1000Base-T uses the following encoding:

Select one:

○ a.   Manchester

○ b.   AMI

○ c.   4B/5B

◉ d.   PAM-5 ✔

Your answer is correct.

Question 4

Incorrect

Mark 0.00 out of 1.00

A common recommendation is to have no more than _____ hosts per LAN or VLAN

Select one:

- ○ a. 10
- ○ b. 1000
- ◉ c. 100 ✖
- ○ d. 100000

Your answer is incorrect.

Question 5

Correct

Mark 1.00 out of 1.00

The popular USB (Universal Serial Bus) standard for connecting computer peripherals uses Manchester encoding.

Select one:

- ○ True
- ◉ False ✔

Question 6

Correct

Mark 1.00 out of 1.00

If an Ethernet switch does not have an entry for a particular destination, it will:

Select one:

- ○ a. Drop the frame
- ◉ b. Fall back to flooding ✔
- ○ c. Keep the frame for later delivery
- ○ d. Use ARP to locate the destination

Your answer is correct.

Question 7

Correct

Mark 1.00 out of 1.00

Different VLANs can usually be connected together via:

Select one:

- a.   An IP router ✔
- b.   A straight Ethernet cable
- c.   A hub
- d.   A firewall

Your answer is correct.

Question 8

Correct

Mark 1.00 out of 1.00

Ethernet switches have an additional privacy advantage in that traffic does not flow where it does not need to flow.

Select one:

- True ✔
- False

Question 9

Correct

Mark 1.00 out of 1.00

Category 5 UTP cable is often used in which networks?

Select one:

- a.   Telephone
- b.   USB
- c.   10 Mbps Ethernet
- d.   100 Mbps Ethernet ✔

Your answer is correct.

Question 10

Correct

Mark 1.00 out of 1.00

Ethernet switches have incorporated a switch-to-switch protocol to construct a subset of the switch-connections graph that has no loops and yet allows reachability of every host. This protocol is called:

Select one:

- a.   Ethernet Learning Algorithm
- b.   Multicast
- c.   Spanning Tree ✔
- d.   VLAN protocol

Your answer is correct.