Started on	Thursday, 9 October 2025, 1:01 PM
State	Finished
Completed on	Thursday, 9 October 2025, 1:04 PM
Time taken	2 mins 57 secs
Marks	5.00/5.00
Grade	**100.00** out of 100.00

Question 1
Complete
Mark 1.00 out of 1.00

What happens if two switches connected via a trunk link are configured with mismatched VLAN IDs?

- ○ a. VLAN tagging is ignored and all frames are untagged.
- ○ b. They automatically synchronize VLAN IDs.
- ○ c. The switches create a single combined VLAN.
- ● d. Traffic may be dropped or delivered to the wrong VLAN.

Question 2
Complete
Mark 1.00 out of 1.00

When a device in VLAN 10 wants to communicate with a device in VLAN 20, what is required?

- ● a. A router or Layer-3 switch (inter-VLAN routing)
- ○ b. A trunk cable
- ○ c. A VLAN tag removal process
- ○ d. A Layer-2 switch

Question 3
Complete
Mark 1.00 out of 1.00

Which IEEE standard defines VLAN tagging?

- ○ a. 802.11
- ○ b. 802.1D
- ● c. 802.1Q
- ○ d. 802.3

Question 4

Complete

Mark 1.00 out of 1.00

In a VLAN configuration, what is the function of a trunk port?

- ◉ a. It carries traffic for multiple VLANs between switches or to servers.
- ○ b. It blocks untagged frames automatically.
- ○ c. It provides routing between VLANs.
- ○ d. It connects end devices like PCs or NAS directly.

Question 5

Complete

Mark 1.00 out of 1.00

What is the main purpose of using VLANs in a data center network?

- ○ a. To encrypt traffic between devices
- ○ b. To increase physical cable count
- ◉ c. To separate broadcast domains logically on the same switch
- ○ d. To improve routing performance at Layer 3