

1. Which of the following accurately describes the function of the CLI (Command Line Interface) in Cisco networking? 1 point
- ☒ It allows users to configure, manage, and monitor Cisco devices through a text-based interface.
 - ☐ It provides a graphical user interface (GUI) for device configuration.
 - ☐ It facilitates communication between Cisco devices.
 - ☐ It controls the hardware of Cisco devices.
2. Which networking model is widely used and considered the foundation of the modern internet? 1 point
- ☐ HTTP (Hypertext Transfer Protocol) model
 - ☐ UDP (User Datagram Protocol) model
 - ☒ TCP/IP (Transmission Control Protocol/Internet Protocol) model
 - ☐ OSI (Open Systems Interconnection) model
3. Which of the following is advantage of using a firewall in a computer network? 1 point
- ☐ Increased network speed and performance
 - ☐ Extended coverage range for Wi-Fi connections
 - ☒ Enhanced network security
 - ☐ Simplified network configuration and management
4. Which of these is a valid representation of an IP address and a subnet mask? 1 point
- ☐ 192.168.0.1 /100
 - ☐ 192.168.0.1
 - ☒ 192.168.0.0 /24
 - ☐ 255.255.0.0
5. Which of the following network topologies are connected to a central cable, called a backbone? 1 point
- ☐ Extended Star
 - ☐ Ring
 - ☐ Mesh
 - ☒ Bus
6. A collection of interconnected devices that are linked together to enable communication and resource sharing is called a: 1 point
- ☐ Server
 - ☐ Diagram
 - ☒ Network
 - ☐ Topology
7. Which of these common network devices receive incoming data packets and send them to the appropriate destination device based on their MAC Addresses? 1 point
- ☐ Firewalls
 - ☐ Servers
 - ☐ Hosts
 - ☒ Switches
8. What does the 'ping' CLI command do? 1 point
- ☐ Displays information about the device's hardware and software
 - ☐ Used to configure and manage interfaces
 - ☒ It is used test connectivity between devices
 - ☐ Helps trace the route that packets take from the source to the destination
9. Choose the subnet address that will accommodate 14 hosts from the network address: 192.168.1.0 /24 1 point
- ☐ 192.168.1.0 /24
 - ☐ 192.168.0.0 /28
 - ☐ 192.168.1.0 /14
 - ☒ 192.168.1.0 /28
10. Which of the OSI layers handles encryption, compression and formatting of data? 1 point
- ☒ Presentation layer
 - ☐ Application layer
 - ☐ Session layer
 - ☐ Transport layer