

1. An administrator has connected devices to a switch and ,for security reasons, wants the learned MAC addresses from the address table added to the running configuration .Which action must be taken to accomplish this ?
 - Use the switchport protected command to have the MAC addresses added to the configuration
 - **Enable port security and use the keyword sticky**
 - Set the switchport mode to trunk and save the running configuration
 - Use the no switchport-security command to allow MAC addresses to be added to the configuration
2. Which adverse situation can occur if an Ethernet cable is too long ?
 - giants
 - **late collisions**
 - runts
 - interface resets
3. Which protocol verifies connectivity between two switches that are configured with IP addresses in the the same network ?
 - ICMP
 - HSRP
 - STP
 - **VTP**
4. Which statement about 802.1q trunking is true?
 - The native VLAN must have same configuration on each device
 - PVST for load balancing is supported
 - **It is a Cisco-propriety technology**
 - A maximum of 1000 VLANs is supported
5. Which command can be entered such that syslog message with severity 0-4 are displayed on the console?
 - logging
 - **logging console warnings**
 - service time-stamps
 - service sequence-numbers
6. Which statement about the default Cisco Discovery Protocol configuration is true?
 - CDPv2 advertisements are unicast
 - CDPv1 is disabled on Fast Ethernet interfaces
 - **CDPv2 advertisements are broadcast**
 - CDPv1 is enabled on Frame Relay subinterfaces
7. What is one requirements for interfaces to run IPv6?
 - **IPv6 must be enabled with the ipv6 enable command in global configuration mode**
 - An IPv4 address must be configured
 - An IPv6 address must be configured on the interface
 - Stateless autoconfiguration must be enabled after enabling IPv6 on the interface

8. Which feature allows you to establish a Telnet connection between devices in your network by entering the devices name?
- ☐ syslog
 - ☐ NTP
 - ☒ DNS lookup
 - ☐ Ping
9. Which address scheme is used to route traffic to the public Internet?
- ☐ FCOO//
 - ☐ 172.30.1 0/24
 - ☒ 2000/3
 - ☐ 192.168.10 0/24
10. How many VLANs can be carried across an access port?
- ☒ 1
 - ☐ 8
 - ☐ 1024
 - ☐ 4096
11. Which option describes a standard role that a firewall plays in an enterprise network?
- ☐ It can permit unauthorized packets to pass to less secure segments of the network.
 - ☐ It can deny all packets from entering an administrative domain
 - ☐ It can forward packets based on rules that are predetermined by IEEE standards
 - ☒ It can decide which packets can traverse from a less secure segment of the network to more secure segments.
12. Which set of conditions comprises a successful ping attempt between two connected routers configured with ip address on the same subnet

The destination host receives an echo request from the host source and the source host receives an echo request from the destination host within one second

The destination host receives an echo reply from the source host within one second and the source host receives an echo request from the destination host

The destination host receives an echo request from the source host and the source host receives an echo reply from the destination host within 2 seconds

The destination host receives an echo request within one second

The destination host receives an echo reply from the source within one second and the source host receives an echo reply from the destination host within 2 seconds

13. Which command can you enter when you establish a telnet connection to a network device so that the console messages are displayed

Logging buffered

Show cpu

Logging

Terminal monitor

14. Which 2 statements about the local user database on an ios device are true (choose 2)

Different users can be assigned different levels of access

It can support a username without a password

If the user enters the log in local command when the device boots up, the device uses the local database of authentication

It supports password only access without a username

By default it requires username to change their passwords every 30 days

15. Which protocol distributes vlan information to all switches in its management domain

Igmp

Mst

Vtp

Stp

16. Which counter indicates the total number of frames that a switch port failed to transmit

Output errors

Collisions

Packet outputs

Frame

17. Which field in an Ethernet frame contains a value that is generated by the source that the destination recalculates for verification

Sa

Imdx

Fcs

Da

18. Which purpose of a floating static router is true

It improves resilience when an interface goes down

It is used in the absence of a default route

It supersedes the route that is installed in the routing table

It disables dynamic routing

19. Which component of the routing table ranks routing protocols according to their preferences

Administrative distance

Next hop

Metric

Routing protocol code

20. Client A cannot reach client B by its hostname which reason of the problem is most likely true

The hostname for client B is missing from the connected router

telnet has been disabled on the connected router

the connected router is using the domain lookup configuration

a dns server has been misconfigured

21. When a router makes a routing decision for a packet that is received from one network destined to another which portion of the packet does it replace

Layer 5 session

Layer 3 ip add

Layer 2 frame header and trailer

Layer 4 protocol

22. What is the maximum size of an Ethernet frame that uses 802.1q tagging
1514 bytes
1522 bytes
128 bytes
68 bytes
23. Which option is the all nodes ipv6 multicast address
Ff01.0.0.0.0.0.1
255.255.255.255
0.0.0.0
FF01.0.0.0.0.0.2
24. For which reason does an administrator implement static routing
To reduce the amount of time required to deploy new device in the network
To reduce overhead on a stub router that requires access only to a default router
To simplify network maintenance on a large enterprise
To provide quick convergence when links fail on a large enterprise
25. Which two options are requirements to obtain a license for an individual Cisco network device (choose 2)
Universal device identifier
The MAC address of the device
Product identifier
Serial address of the device
26. Which routing protocol has the lowest administrative distance
RIP
iBGP
OSPF
EIGRP
27. Which value is indicated by the next hop in a routing table
IP address of the remote router for forwarding packets
Exit interface IP address for forwarding packets
Preference of the router source
How the router was learned