College OF Electronic Technology – Tripoli
Cisco CCNA 4 Final Exam

1. What network attack seeks to create a DoS for clients by preventing them from being able to obtain a DHCP lease?
   A. ○ IP address spoofing.
   B. ○ CAM table attack.
   C. ○ DHCP starvation.
   D. ○ DHCP spoofing.

2. What is a component of an DSL connection that is located at CO?
   A. ○ DSLAM
   B. ○ CPE
   C. ○ Broadband Modem
   D. ○ CMTS

3. Which two statements describe the effect of the access control list wildcard mask 0.0.0.7? (Choose two.)
   A. ☐ The last four bits of IP address will be matched.
   B. ☐ The first 29 bits of IP address will be matched.
   C. ☐ The last Three bits of IP address will be ignored.
   D. ☐ The first 32 bits of IP address will be matched.

4. What are two common types of circuit-switched WAN technologies? (Choose two.)
   A. ☐ ISDN
   B. ☐ DSL
   C. ☐ ATM
   D. ☐ PSTN
   E. ☐ Frame Relay

5. How does PPP interface with different network layer protocols?
   A. ○ By using separate NCPs.
   B. ○ By encoding the information field in the PPP frame.
   C. ○ By specifying the protocol during link establishment through LCP.
   D. ○ By negotiating with the network layer handler.

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6. When dynamic NAT without overloading is being used, what happens if five users attempt to access a public server on the Internet when only four addresses are available in the NAT pool?
   A. ○ No users can access the server.
   B. ○ The request to the server for the fifth user fails.
   C. ○ All users can access the server.
   D. The first user gets disconnected when the fifth user makes the request.

7. Which two protocols are used to provide server-based AAA authentication? (Choose two.)
   A. ☐ SNMP
   B. ☐ RADIUS
   C. ☐ SSH
   D. ☐ 802.1x
   E. ☐ TACACS+

8. Which two values or sets of values are included when creating a standard access control list entry? (Choose two.)
   A. ☐ Source address and wildcard mask.
   B. ☐ Access list number between 100 and 199.
   C. ☐ Destination address and wildcard mask.
   D. ☐ Access list number between 1 and 99

9. Which WAN technology establishes a dedicated constant point-to-point connection between two sites?
   A. ○ ATM
   B. ○ Frame Relay
   C. ○ ISDN
   D. ○ Leased lines

10. A company needs to interconnect several branch offices across a metropolitan area. The network engineer is seeking a solution that provides high-speed converged traffic, including voice, video, and data on the same network infrastructure. The company also wants easy integration to their existing LAN infrastructure in their office locations. Which technology should be recommended?
    A. ○ Frame Relay
    B. ○ ISDN
    C. ○ VSAT
    D. ○ Ethernet WAN

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11. In which situation would the use of PAP be preferable to the use of CHAP?
   A. ○ When router resources are limited.
   B. ○ When multilink PPP is used.
   C. ○ When a network administrator prefers it because of ease of configuration.
   D. ○ When plain text passwords are needed to simulate login at the remote host.

12. Which VPN technology is used when there is need to connect individual hosts securely to a company network over the Internet?
   A. ○ Site-to-Site VPN
   B. ○ Remote Site VPN
   C. ○ DMVPN
   D. ○ MPLS

13. Which statement describes the function of the SPAN tool used in a Cisco switch?
   A. ○ It is a secure channel for a switch to send logging to a syslog server.
   B. ○ It supports the SNMP trap operation on a switch.
   C. It copies the traffic from one switch port and sends it to another switch port that is connected to a monitoring device.
   D. ○ It provides interconnection between VLANs over multiple switches.

14. What type of NAT allows an external user to reach a service on a private IPv4 address that is located inside a LAN?
   A. ○ PAT.
   B. ○ Dynamic.
   C. ○ Port Forwarding.
   D. ○ Overloading.

15. Which protocol defines port-based authentication to restrict unauthorized hosts from connecting to the LAN through publicly accessible switch ports?
   A. ○ RADIUS
   B. ○ TACACS+
   C. ○ 802.1x
   D. ○ SSH

16. Refer to the exhibit. Host 10.10.1.1 is only allowed to use https to browse the internet, but still the user can't access the WEB, what line is causing this issue.

```
Extended IP access list 101
    10 permit tcp 10.10.1.0 0.0.0.15 host 10.20.1.1 eq smtp
    20 permit tcp host 10.10.1.1 host 10.20.1.2 eq ftp
    30 deny tcp any any
    40 permit tcp host 10.10.1.1 any eq 443
    50 deny tcp any any eq www
    60 permit ip any any
```

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A. ○ 20
B. ○ 10
C. ○ 30
D. ○ 50
E. ○ 40

17. Which two packet filters could a network administrator use on an IPv4 extended ACL? (Choose two.)
    A. ○ Destination TCP port number.
    B. ○ Source TCP hello address.
    C. ○ ICMP message type.
    D. ○ Destination MAC address.

18. When configuring Multilink PPP, where is the IP address for the multilink bundle configured?
    A. ○ On a physical serial interface.
    B. ○ On a multilink interface.
    C. ○ On a physical Ethernet interface.
    D. ○ On a subinterface.

19. What are two techniques for mitigating VLAN attacks? (Choose two.)
    A. ☐ Enable BPDU guard.
    B. ☐ Enable trunking manually.
    C. ☐ Enable Source Guard.
    D. ☐ Disable DTP.

20. Which wireless technology provides Internet access through cellular networks?
    A. ○ LTE
    B. ○ Municipal WiFi
    C. ○ Satellite
    D. ○ WiMAX

21. Which two technologies use the PSTN network to provide an Internet connection? (Choose two.)
    A. ☐ MPLS
    B. ☐ ATM
    C. ☐ Dialup
    D. ☐ Frame Relay
    E. ☐ ISDN

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22. Which statement describes SNMP operation?
   A. ○ A set request is used by the NMS to change configuration variables in the agent device.
   B. ○ An NMS periodically polls the SNMP agents that are residing on managed devices by using traps to query the devices for data
   C. ○ A get request is used by the SNMP agent to query the device for data.
   D. ○ An SNMP agent that resides on a managed device collects information about the device and stores that information remotely in the MIB that is located on the NMS.

23. What DMVPN protocol allows the creation of multiple tunnels between the hub and the spokes.
   A. ○ NHRP
   B. ○ mGRE
   C. ○ IPsec

24. What solution can provide a secure VPN between two sites to support encapsulation of Layer 3 protocol between the internal networks at each site?
   A. ○ GRE tunnel.
   B. ○ IPsec tunnel.
   C. ○ SSL VPN.
   D. ○ Remote access tunnel.

25. Which PPP option can detect links that are in a looped-back condition?
   A. ○ Callback
   B. ○ Magic Number
   C. ○ ACCM.
   D. ○ MRU

26. When NAT is employed in a small office, which address type is typically used for hosts on the local LAN?
   A. ○ Private IP addresses
   B. ○ Global public IP addresses
   C. ○ Internet-routable addresses
   D. ○ Both private and public IP addresses

27. Which two statements describe a PPP connection between two Cisco routers? (Choose two.)
   A. □ LCP tests the quality of the link.
   B. □ LCP manages compression on the link.
   C. □ NCP terminates the link when data exchange is complete.
   D. □ Only a single NCP is allowed between the two routers.

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28. A network administrator is analyzing the features supported by the multiple versions of SNMP. What are two features that are supported by SNMPv3 but not by SNMPv1 or SNMPv2c? (Choose two.)
    A. ☐ Message encryption.
    B. ☐ Community-based security.
    C. ☐ SNMP trap mechanism.
    D. ☐ Message source validation.
    E. ☐ Bulk retrieval of MIB information.

29. Which two ACE commands will block outgoing mail traffic (SMTP)?
    A. ○ access-list 110 deny tcp any any eq 21
    B. ○ access-list 110 deny tcp any any eq 25
    C. ○ access-list 110 deny tcp any any eq 20
    D. ○ access-list 110 deny tcp any any eq 22

30. What protocol is used to encapsulate the EAP data between the authenticator and authentication server performing 802.1X authentication?
    A. ○ TACACS+
    B. ○ RADIUS
    C. ○ SSH
    D. ○ MD5

31. What is the function of the MIB element as part of a network management system?
    A. ○ To collect data from SNMP agents
    B. ○ To send and retrieve network management information
    C. ○ To store data about a device.
    D. ○ To change configurations on SNMP agents

32. Which network device would be used to perform NAT for a corporate environment?
    A. ○ Router
    B. ○ Switch
    C. ○ DHCP Server
    D. ○ Host Device

33. Which statement describes the RSPAN VLAN?
    A. ○ The RSPAN VLAN can be used to carry secure traffic between switches.
    B. ○ The RSPAN VLAN must be the same on both the source and destination switch.
    C. ○ The RSPAN VLAN must be the same as the native VLAN.
    D. ○ The RSPAN VLAN can be used for remote management of network switches.

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34. Refer to the exhibit the SNMP server can't get data from the network, how to fix this issue?

```
Extended IP access list services
    10 deny tcp 192.168.1.0 0.0.0.255 any eq telnet
    20 deny tcp 192.168.1.0 0.0.0.255 any eq smtp
    30 permit tcp any any
```

A. O Delete ACME 30
B. O Add new ACME 35: *permit udp any any*
C. O Add new ACME: *25 permit udp any any eq 80*
D. O Delete ACME 30 and replace it with: *30 permit ip any any*

35. Refer to the exhibit what is wrong with the configuration?
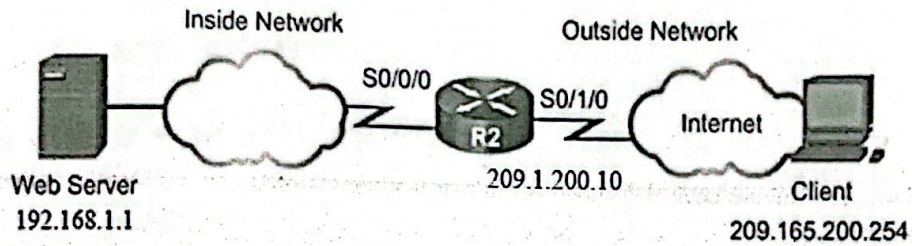

192.168.11.11/24   192.168.12.1/24
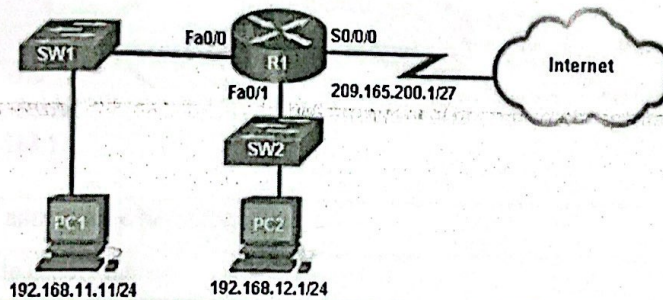
```
R1(config)# ip nat pool NAT-POOL2 209.165.200.5 209.165.200.10 netmask 255.255.255.224
R1(config)# access-list 1 permit 192.168.0.0 0.0.255.255
R1(config)# interface Fa0/0
R1(config-if)# ip nat inside
R1(config)# interface Fa0/1
R1(config-if)# ip nat inside
R1(config)# interface Serial0/0/0
R1(config-if)# ip nat outside
```

A. O The NAT statement to bound the ACL with the pool is missing.
B. O Fa0/1 should be the outside interface
C. O The ACL is incorrect.
D. O The pool is incorrect

36. Which is an advantage of using PPP on a serial link instead of HDLC?
A. O Option for authentication
B. O Higher speed transmission
C. O Fixed-size frames
D. O Option for session establishment

37. Match the broadband solutions to the selecting considering factor.

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Cable	Coverage is often an issue.
DSL	Expensive, limited capacity per subscriber
Mobile	Bandwidth shared by many users, slow data rates during high-usage hours
Satellite	Limited bandwidth that is distance sensitive

38. Refering to the exhbit defines the following

Inside Network

Outside Network

S0/0/0   S0/1/0   Internet

R2

Web Server   209.1.200.10   Client
192.168.1.1   209.165.200.254

A.	The appropriate NAT type	
B.	Inside Local Address	
C.	Inside Global Address	
D.	Outside Global Address	

Goodluck.

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