

- **Vendor: Cisco**
- **Exam Code: 200-301**
- **Exam Name: Cisco Certified Network Associate**
- **Part of New Questions from [PassLeader](#) (Updated in [Aug/2022](#))**

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NEW QUESTION 1051

How many bits represent network id in a IPv6 address?

- A. 32
- B. 48
- C. 64
- D. 128

Answer: C

NEW QUESTION 1052

What is the Layer 2 encapsulation for Ethernet?

- A. 802.1q
- B. ARPA
- C. SSL
- D. RTP

Answer: B

NEW QUESTION 1053

Which command is used to verify your OSPFv3 neighbor adjacencies?

- A. show ospf neighbor
- B. show ipv6 brief
- C. show ipv6 ospf
- D. show ipv6 ospf neighbor

Answer: D

NEW QUESTION 1054

Which of the following protocols are used to auto negotiate trunk formation between two switches?

- A. CDP
- B. VTP
- C. DTP
- D. STP

Answer: C

NEW QUESTION 1055

You have the Class B network 172.16.0.0/16 and want to create 16 subnets. What will the new subnet mask be for the 16 subnets?

- A. /18
- B. /19
- C. /21
- D. /17
- E. /22
- F. /20

Answer: F

NEW QUESTION 1056

Which two benefits of implementing a full-mesh WAN topology are true? (Choose two.)

- A. increased latency
- B. redundancy
- C. reduced jitter
- D. reliability
- E. improved scalability

Answer: BD

NEW QUESTION 1057

Which technology is a critical component of a cloud-based architecture?

- A. DNS
- B. MPLS
- C. DHCP
- D. IPv6

Answer: A

NEW QUESTION 1058

Which two characteristics are representative of a link-state routing protocol? (Choose two.)

- A. provides common view of entire topology
- B. exchanges routing tables for its own routes with neighbor
- C. calculates feasible path
- D. utilizes event-triggered updates
- E. utilizes frequent periodic updates

Answer: AD

NEW QUESTION 1059

Which layer of the TCP/IP model manages the transmission of binary digits across an Ethernet cable?

- A. network
- B. physical
- C. data link
- D. transport

Answer: B

NEW QUESTION 1060

Which effect does the switchport trunk vlan 10 command have?

- A. It sets VLAN 10 as the native VLAN on the trunk.
- B. It configures the interface as a trunk port.
- C. It allows traffic from native VLAN 10 on the trunk.
- D. It prevents traffic on VLAN 1 from passing on the trunk.

Answer: B

NEW QUESTION 1061

What are two common types of copper cable?

- A. unshielded twisted pair
- B. single-mode
- C. shielded twisted pair
- D. OM4
- E. multimode

Answer: AC

NEW QUESTION 1062

Which two statements about DNS lookup operations are true? (Choose two.)

- A. When the primary IP address of the destination is down, the DNS server can forward the client to an alternate IP address.
- B. The client sends a request for IP address to domain name resolution to the DNS server.
- C. The DNS server pings the destination to verify that is available.
- D. They use destination port 53.
- E. The client sends a request for domain name to IP address resolution to the DNS server.

Answer: DE

NEW QUESTION 1063

How does a Cisco IP phone handle untagged traffic that it receives from an attached PC?

- A. It allows the traffic to pass through unchanged.
- B. It drops the traffic.
- C. It tags the traffic with the default VLAN.
- D. It tags the traffic with the native VLAN.

Answer: A

NEW QUESTION 1064

Which port security violation mode drops traffic from unknown MAC addresses and sends an SNMP trap?

- A. protect
- B. restrict
- C. shutdown
- D. shutdown VLAN

Answer: B

NEW QUESTION 1065

Which two TCP messages use a 32-bit number as part of the initial TCP handshake? (Choose two.)

- A. SYN
- B. RST
- C. SYN-ACK
- D. FIN
- E. ACK

Answer: AE

NEW QUESTION 1066

Which two protocols does the internet layer in the TCP/IP model encapsulate? (Choose two.)

- A. DNS
- B. TCP
- C. SMTP
- D. ARP
- E. ICMP

Answer: DE

NEW QUESTION 1067

Which feature or protocol must you enable so that the output of the show interfaces trunk command includes information about native VLAN mismatches?

- A. RSTP
- B. CDP
- C. PortFast
- D. DTP

Answer: B

NEW QUESTION 1068

Which IOS troubleshooting tool should you use to direct system messages to your screen?

- A. log events
- B. terminal monitor
- C. local SPAN
- D. APIC-EM

Answer: B

NEW QUESTION 1069

According to security best practices, which two actions must you take to protect an unused switch port? (Choose two.)

- A. Administratively shut down the port.
- B. Configure the port as a trunk port.
- C. Configure the port to automatically come online.
- D. Enable CDP.
- E. Configure the port as an access port on a VLAN other than VLAN 1.

Answer: AE

NEW QUESTION 1070

Which command must you use to test DNS connectivity?

- A. telnet
- B. show hosts
- C. ipconfig
- D. show interfaces

Answer: B

NEW QUESTION 1071

Why do large OSPF networks use a hierarchical design? (Choose three.)

- A. to decrease latency by increasing bandwidth
- B. to reduce routing overhead
- C. to speed up convergence
- D. to confine network instability to single areas of the network
- E. to reduce the complexity of router configuration
- F. to lower costs by replacing routers with distribution layer switches

Answer: BCD

Explanation:

OSPF implements a two-tier hierarchical routing model that uses a core or backbone tier known as area zero (0). Attached to that backbone via area border routers (ABRs) are a number of secondary tier areas. The hierarchical approach is used to achieve the following:

- Rapid convergence because of link and/or switch failures
 - Deterministic traffic recovery
 - Scalable and manageable routing hierarchy, reduced routing overhead
- <https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Campus/routed-ex.html>

NEW QUESTION 1072

Which two statements about the spanning-tree bridge ID are true? (Choose two.)

- A. It is composed of a 4-bit bridge priority and a 12-bit system ID extension.
- B. The bridge ID is transmitted in the IP header to elect the root bridge.
- C. The system ID extension is a value between 1 and 4095.
- D. It is composed of an 8-bit bridge priority and a 16-bit system ID extension.
- E. The bridge priority must be incremented in blocks of 4096.

Answer: AE

NEW QUESTION 1073

Which three options are types of slow VLAN connectivity? (Choose three.)

- A. slow broadcast domain connectivity
- B. slow routing domain connectivity
- C. slow default gateway connectivity
- D. slow application domain connectivity
- E. slow collision domain connectivity
- F. slow inter-VLAN connectivity

Answer: ADE

NEW QUESTION 1074

Which command can you enter to configure an IPv6 static route?

- A. router(config)#ipv6 route FE80:0202::/32 serial 0/1 1
- B. router(config)#ipv6 route FE80:0202::/32 serial 0/1 201
- C. router(config)#ipv6 route ::/0 serial 0/1
- D. router(config)#ipv6 route static resolve default

Answer: B

NEW QUESTION 1075

Which set of conditions comprises a successful ping attempt between two connected routers configured with IP addresses on the same subnet?

- A. 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.
- B. The destination host receives an echo request from the source host within one second.
- C. The destination host receives an echo reply from the source host within one second and the source host receives an echo reply from the destination host within two seconds.
- D. The destination host receives an echo request from the source host and the source host receives an echo request from the destination host within one second.
- E. The destination host receives an echo request from the source host and the source host receives an echo reply from the destination host within two seconds.

Answer: E

NEW QUESTION 1076

Which command can you enter to assign an interface to the default VLAN?

- A. switch(config-if)# switchport access vlan 1
- B. switch(config-if)# switchport trunk native vlan 1
- C. switch(config-if)# vlan 1
- D. switch(config)# int vlan 1

Answer: A

NEW QUESTION 1077

In which STP state does MAC address learning take place on a PortFast-enabled port?

- A. learning
- B. listening
- C. discarding
- D. forwarding

Answer: D

NEW QUESTION 1078

On a live network, which two commands will verify the operational status of router interfaces? (Choose two.)

- A. router# show ip interface brief
- B. router# debug interface
- C. router# show ip protocols
- D. router# show interfaces
- E. router# show start

Answer: AD

NEW QUESTION 1079

An administrator is working with the 192.168.4.0 network, which has been subnetted with a /26 mask. Which two addresses can be assigned to hosts within the same subnet? (Choose two.)

- A. 192.168.4.67
- B. 192.168.4.61
- C. 192.168.4.128
- D. 192.168.4.132
- E. 192.168.4.125
- F. 192.168.4.63

Answer: AE

NEW QUESTION 1080

Which feature can validate address requests and filter out invalid messages?

- A. IP Source Guard
- B. Port Security
- C. DHCP Snooping
- D. Dynamic ARP Inspection

Answer: C

NEW QUESTION 1081

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