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## **Free Questions for 200-301**

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## Questions # 1:

Refer to the exhibit.

>

Which IPv6 configuration is required for R17 to successfully ping the WAN interface on R18?

A)

>

B)

>

C)

>

D)

>

### Options:

A.

Option A

B.

Option B

C.

Option C

D.

Option D

### Answer

B

### Explanation

ipv6 unicast-routing statement included (IPv6 is enabled on the router).

Compared to the exhibit, Fa0/0 and Fa0/1 have correct configurations.

The route to subnet 2001:db8:4::/64 points to R18's Fa1/0 (correct next-hop).

### Questions # 2:

Which configuration is needed to generate an RSA key for SSH on a router?

#### Options:

A.

Configure the version of SSH

B.

Configure VTY access.

C.

Create a user with a password.

D.

Assign a DNS domain name

#### Answer

D

### Questions # 3:

>

Refer to the exhibit. How will the device handle a packet destined to IP address 100.100.100.100?

#### Options:

A.

If will choose the route with the longest match. O 100.100.100.100'32 (110/21) via 192.168.1.1. 00:05:57. EmernetO/1.

B.

It will always prefer the static route over dynamic routes and choose the routeS 100.100.0.0/16(1/0] via 192.168.4.1.

C.

It will choose the route with the highest metric.D 100.100.100.0/24 (90/435200) via 192.168.2.1. 00:00:13. EthernetO/2.

D.

It will choose the route with the lowest metric,R 100.0.0.0/8 [120/2] via 192.168.3.1. 00:00:13. EthernetO/3.

### Answer

A

### Questions # 4:

What happens when a switch receives a frame with a destination MAC address that recently aged out?

#### Options:

A.

The switch references the MAC address aging table for historical addresses on the port that received the frame.

B.

The switch floods the frame to all ports in all VLANs except the port that received the frame

C.

The switch drops the frame and learns the destination MAC address again from the port that received the frame

D.

The switch floods the frame to all ports in the VLAN except the port that received the frame.

## Answer

D

### Questions # 5:

Which Cisco proprietary protocol ensures traffic recovers immediately, transparently, and automatically when edge devices or access circuits fail?

#### Options:

A.

SLB

B.

FHRP

C.

VRRP

D.

HSRP

## Answer

D

### Questions # 6:

The address block 192.168.32.0/24 must be subnetted into smaller networks. The engineer must meet these requirements:

- Create 8 new subnets
- Each subnet must accommodate 30 hosts
- Interface VLAN 10 must use the last usable IP in the first new subnet
- A Layer 3 interface is used

Which configuration must be applied to the interface?

A)

>

B)

>

C)

>

D)

>

**Options:**

A.

Option A

B.

Option B

C.

Option C

D.

Option D

**Answer**

D

Questions # 7:

An engineer must configure neighbor discovery between the company router and an ISP

>

What is the next step to complete the configuration if the ISP uses a third-party router?

**Options:**

A.

Enable LLDP globally.

B.

Disable CDP on gi0/0.

C.

Enable LLDP TLVs on the ISP router.

D.

Disable auto-negotiation.



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**Answer**

A

Questions # 8:

Drag and drop the IPv6 address description from the left onto the IPv6 address types on the right. Not all options are used.

>

**Options:**

**Answer**

Answer: >



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Questions # 9:

Refer to the exhibit.

>

A network engineer configures the Cisco WLC to authenticate local wireless clients against a RADIUS server Which task must be performed to complete the process?

**Options:**

A.

Change the Server Status to Disabled

B.

Select Enable next to Management

C.

Select Enable next to Network User

D.

Change the Support for CoA to Enabled.



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**Answer**

C

Questions # 10:

Drag and drop the wireless architecture benefits from the left onto the architecture types on the right.

>

**Options:**

**Answer**

Answer: >



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Questions # 11:

Refer to the exhibit.

>

A network engineer must configure the link with these requirements:

- Consume as few IP addresses as possible.
- Leave at least two additional useable IP addresses for future growth.

Which set of configurations must be applied?

A)

>

B)

>

C)

>

D)

>

**Options:**

A.

Option A

B.

Option B

C.

Option C

D.

Option D



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**Answer**

B

**Explanation**

We have to configure the link which will need 2 IP addresses, 1 for each port on each Router. We also need 2 spare IPs for future growth, so overall we need 4 usable IP addresses. If we consider using the /30 (255.255.255.252) mask, it will give us  $2^2 (=4)$  i.e., total 4 IPs and 2 usable IPs, which doesn't fulfil the given requirements. So, we can

consider using the next /29 (255.255.255.248) mask, which gives us  $2^3 (=8)$  i.e., total 8 IP address and 6 usable IP addresses, which perfectly fulfil the given requirements.

### Questions # 12:

>

Refer to the exhibit. R1 has taken the DROTHER role in the OSPF DR/BDR election process. Which configuration must an engineer implement so that R1 is elected as the DR?

#### Options:

A.

R1(config)#interface FastEthernet 0/0R1(config-if)#ip ospf priority 1R1#clear ip ospf process

B.

R2(config)#interface FastEthernet 0/2R2(config-if)#ip ospf priority 1R2#clear ip ospf process

C.

R1(config)#interface FastEthernet 0/0R1(config-if)#ip ospf priority 200R1#clear ip ospf process

D.

R3(config)#interface FastEthernet 0/1R3(config-if)#ip ospf priority 200R3#clear ip ospf process

#### Answer

C

### Questions # 13:

>

Refer to the exhibit. What is the next-hop IP address for R2 so that PC2 reaches the application server via EIGRP?

**Options:**

A.

192.168.20.1

B.

10.10.10.5

C.

192.168.30.1

D.

10.10.10.6



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**Answer**

D

Questions # 14:

A packet from a company s branch office is destined to host 172.31.0.1 at headquarters. The sending router has three possible matches in its routing table for the packet prefixes: 172.31.0.0/16, 172.31.0.0/24, and 172.31.0.0/25. How does the router handle the packet?

**Options:**

A.

It sends the traffic via prefix 172.31.0.0/16

B.

It sends the traffic via the default gateway 0.0.0.0.

C.

It sends the traffic via prefix 172.31.0.0/24

D.

It sends the traffic via prefix 172.31.0.0/25



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## Answer

D

### Questions # 15:

Which command implies the use of SNMPv3?

#### Options:

A.

snmp-server host

B.

snmp-server community

C.

snmp-server enable traps

D.

snmp-server user

## Answer

B

### Questions # 16:

Drag and drop the common functions from the left onto the corresponding network topology architecture layer on the right. Not all common functions are used.

>

#### Options:

## Answer

Answer: >

### Questions # 17:

Refer to the exhibit.

>

The router has been configured with a subnet to accommodate the requirement for 380 users on a subnet. The requirement already considers 30% future growth. Which configuration verifies the IP subnet on router R4?

#### Options:

A.

Subnet: 10.7.54.0 Subnet mask: 255.255.254.0 Broadcast address: 10.7.54.255 Usable IP address range: 10.7.54.1 - 10.7.55.254

B.

Subnet: 10.7.54.0 Subnet mask: 255.255.128.0 Broadcast address: 10.7.55.255 Usable IP address range: 10.7.54.1 - 10.7.55.254

C.

Subnet: 10.7.54.0 Subnet mask: 255.255.255.0 Broadcast address: 10.7.54.255 Usable IP address range: 10.7.54.1 - 10.7.55.254

D.

Subnet: 10.7.54.0 Subnet mask: 255.255.254.0 Broadcast address: 10.7.55.255 Usable IP address range: 10.7.54.1 - 10.7.55.254

## Answer

D

### Questions # 18:

Refer to the exhibit.

>

Router R1 must be configured to reach the 10.0.3.0/24 network from the 10.0.1.0/24 segment.

Which command must be used to configure the route?

**Options:**

A.

ip route 10.0.3.0 0.255255.255 10.0.4.2

B.

route add 10.0.3.0 mask 255.255.255.0 10.0.4.3

C.

Ip route 10.0.3.0 255.255.255.0 10.0.4.3

D.

route add 10.0.3.0 0.255.255.255 10.0.4.2

**Answer**

C

Questions # 19:

>

Refer to the exhibit. Drag and drop the learned prefixes from the left onto the preferred route methods from which they were learned on the right.

>

**Options:**

**Answer**

Answer: >

## Questions # 20:

A network engineer must configure the router R1 GigabitEthernet1/1 interface to connect to the router R2 GigabitEthernet1/1 interface. For the configuration to be applied, the engineer must compress the address 2001:0db8:0000:0000:0500:000a:400F:583B. Which command must be issued on the interface?

### Options:

A.

ipv6 address 2001:db8 :: 500:a:400F:583B

B.

ipv6 address 2001:0db8 :: 5:a:4F:583B

C.

ipv6 address 2001 :: db8:0000 :: 500:a:400F:583B

D.

ipv6 address 2001:db8:0 :: 500:a:4F:583B

### Answer

A

## Questions # 21:

What is the role of nonoverlapping channels in a wireless environment?

### Options:

A.

to reduce interference

B.

to allow for channel bonding

C.

to stabilize the RF environment

D.

to increase bandwidth

**Answer**

A



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Questions # 22:

A Cisco engineer at a new branch office is configuring a wireless network with access points that connect to a controller that is based at corporate headquarters. Wireless client traffic must terminate at the branch office and access-point survivability is required in the event of a WAN outage. Which access point mode must be selected?

**Options:**

A.

Lightweight with local switching disabled

B.

Local with AP fallback enabled

C.

OfficeExtend with high availability disabled

D.

FlexConnect with local switching enabled



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**Answer**

D

Questions # 23:

Refer to the exhibit.

>

Routers R1 and R2 are configured with RIP as the dynamic routing protocol. A network engineer must configure R1 with a floating static route to serve as a backup route to network 192.168.23.0. Which command must the engineer configure on R1?

**Options:**

A.

ip route 192.168.23.0 255.255.255.255 192.168.13.3 121

B.

ip route 192.168.23.0 255.255.255.0 192.168.13.3 100

C.

ip route 192.168.23.0 255.255.255.0 192.168.13.3 121

D.

ip route 192.168.23.0 255.255.255.0 192.168.13.3

**Answer**

C

Questions # 24:

Drag and drop the virtualization concepts from the left onto the matching statements on the right.

>

**Options:**

**Answer**

Answer: >

Questions # 25:

What is the default port-security behavior on a trunk link?

**Options:**

A.

It causes a network loop when a violation occurs.

B.

It disables the native VLAN configuration as soon as port security is enabled.

C.

It places the port in the err-disabled state if it learns more than one MAC address.

D.

It places the port in the err-disabled slate after 10 MAC addresses are statically configured.

**Answer**

A

Questions # 26:

Which command configures the Cisco WLC to prevent a serial session with the WLC CLI from being automatical toggged out?

**Options:**

A.

config sessions maxsessions 0

B.

config sessions timeout 0

C.

config serial timeout 0

D.

config serial timeout 9600

### Answer

B

### Questions # 27:

What differentiates the Cisco OfficeExtend AP mode from FlexConnect AP mode?

#### Options:

A.

FlexConnect allows a personal SSID to be configured on the AP, and personal SSIDs are not supported with OfficeExtend.

B.

OfficeExtend does not support DTLS tunneling of traffic to the WLC, and FlexConnect tunnels traffic to the WLC with DTLS.

C.

OfficeExtend tunnels all traffic through the WLC, and FlexConnect terminates client traffic at the AP switch port.

D.

FlexConnect must be deployed behind a router that NATs the client traffic, and OfficeExtend uses public IP sources.

### Answer

C

### Questions # 28:

Drag and drop the AAA lerm from the left onto the descriptions on the right.

>

**Options:**

**Answer**

Answer: >

Questions # 29:

Two switches have been implemented and all interfaces are at the default configuration level. A trunk link must be implemented between two switches with these requirements:

- using an industry-standard trunking protocol
- permitting VLANs 1 -10 and denying other VLANs

How must the interconnecting ports be configured?

A)

>

B)

>

C)

>

D)

>

**Options:**

A.

Option A

B.

Option B

C.

Option C

D.

Option D

**Answer**

D

Questions # 30:

By default, how long will the switch continue to know a workstation MAC address after the workstation stops sending traffic?

**Options:**

A.

200 seconds

B.

300 seconds

C.

600 seconds

D.

900 seconds

**Answer**

B

Questions # 31:

Refer to the exhibit.

>

The EtherChannel is configured with a speed of 1000 and duplex as full on both ends of channel group 1. What is the next step to configure the channel on switch A to respond to but not initiate LACP communication?

**Options:**

A.

interface range gigabitethernet0/0/0-15 channel-group 1 mode on

B.

interface range gigabitethernet0/0/0-15 channel-group 1 mode desirable

C.

interface port-channel 1 channel-group 1 mode auto

D.

interface port-channel 1 channel-group 1 mode passive

**Answer**

D

Questions # 32:

Refer to the exhibit.

>

A network engineer must configure router R1 with a host route to the server. Which command must the engineer configure?

**Options:**

A.

R1(config)#ip route 10.10.10.0 255.255.255.0 192.168.0.2

B.

R1(Config)#ip route 10.10.10.10 265.255.255.255 192 168.0.2

C.

R1(config)#ip route 192.168.0.2 255.255.255.255 10.10.10.10

D.

R1(config)#ip route 0.0.0.0 0.0 0.0 192 168.0.2

## Answer

B

### Questions # 33:

What are two disadvantages of a full-mesh topology? (Choose two.)

#### Options:

A.

It needs a high MTU between sites.

B.

It has a high implementation cost.

C.

It must have point-to-point communication.

D.

It requires complex configuration.

E.

It works only with BGP between sites.

## Answer

B, D

### Questions # 34:

Which IP header field is changed by a Cisco device when QoS marking is enabled?

#### Options:

A.

Header Checksum

B.

Type of service

C.

DSCP

D.

ECN



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### Answer

B

### Questions # 35:

Refer to the exhibit.

>

The network administrator must prevent the switch Cat9K-2 IP address from being visible in LLDP without disabling the protocol. Which action must be taken to complete the task?

### Options:

A.

Configure the `no lldp tlv-select-management-address` command globally on Cat9K-2

B.

Configure the `no lldp transmit` command on interface G1/0/21 in Cat9K-1

C.

Configure the `no lldp receive` command on interface G1/0/21 on Cat9K-1

D.

Configure the `no lldp mac-phy-cfg` command globally on Cat9K-2

## Answer

A

### Questions # 36:

An on-site service desk technician must verify the IP address and DNS server information on a user's Windows computer. Which command must the technician enter at the command prompt on the user's computer?

#### Options:

A.

`ipconfig /all`

B.

`ifconfig -a`

C.

`show interface`

D.

`netstat -r`

## Answer

A

#### Explanation

The `ipconfig /all` command displays the configuration information of all the network adapters on a Windows computer, including the IP address, subnet mask, default gateway, and DNS server information. This command can help troubleshoot network connectivity and DNS resolution issues.

### Questions # 37:

What is a difference between an IPv6 multicast address and an IPv6 anycast address?

**Options:**

A.

A packet sent to an IPv6 multicast address is delivered to one or more destinations at once, but a packet sent to an IPv6 anycast address is routed to the closest interface with that address.

B.

An IPv6 multicast address uses the prefix 2002::/15 and forwards to one destination, and an IPv6 anycast address uses the prefix ff00::/8 and forwards to any destination in a group.

C.

IPv6 multicast addresses are used to transition from IPv4 to IPv6, and IPv6 anycast addresses are used for address aggregation in an IPv6-only environment.

D.

An IPv6 multicast address is assigned to numerous interfaces within a subnet, but an IPv6 anycast address is used for a predefined group of nodes in an all-IPv6 routers group.

**Answer**

A

Questions # 38:

Refer to the exhibit.

>

A network engineer must configure NETCONF. After creating the configuration, the engineer gets output from the command show line but not from show running- config. Which command completes the configuration?

**Options:**

A.

Device(config)# netconf lock-time 500

B.

Device(config)# netconf max-message 1000

C.

Device(config)# no netconf ssh acl 1

D.

Device(config)# netconf max-sessions 100

**Answer**

B



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Questions # 39:

Refer to the exhibit. A network administrator configures the CPE to provide internet access to the company headquarters. Traffic must be load-balanced via ISP1 and ISP2 to ensure redundancy. Which two command sets must be configured on the CPE router? (Choose two.)

**Options:**

A.

>

B.

B. >

C.

C. >

D.

D. >

E.

E. >



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**Answer**

A, C

#### Questions # 40:

A network engineer must configure an interface with IP address 10.10.10.145 and a subnet mask equivalent to 11111111.11111111.11111111.11111000. Which subnet mask must the engineer use?

#### Options:

A.

/29

B.

/30

C.

/27

D.

/28



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#### Answer

A

#### Questions # 41:

A switch is forwarding a frame out of an interface except the interface that received the frame. What is the technical term for this process?

#### Options:

A.

ARP

B.

CDP

C.



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flooding

D.

multicast

**Answer**

C



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Questions # 42:

What is the difference between 1000BASE-LX/LH and 1000BASE-ZX interfaces?

**Options:**

A.

1000BASE-ZX is supported on links up to 1000km, and 1000BASE-LX/LH operates over links up to 70 km.

B.

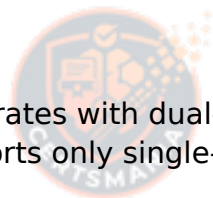
1000BASE-LX/LH interoperates with multimode and single-mode fiber, and 1000BASE-ZX needs a conditioning patch cable with a multimode.

C.

1000BASE-LX/LH is supported on links up to 10km, and 1000BASE-ZX operates over links up to 70 km

D.

1000BASE-ZX interoperates with dual-rate 100M/1G 10Km SFP over multimode fiber, and 1000BASE-LX/LH supports only single-rate.



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**Answer**

C

Questions # 43:

What is the functionality of the Cisco DNA Center?

**Options:**

A.

data center network pokey con

B.

console server that permits secure access to all network devices

C.

IP address cool distribution scheduler

D.

software-defined controller for automaton of devices and services

**Answer**

D

Questions # 44:

When the LAG configuration is updated on a Cisco WLC which additional task must be performed when changes are complete?

**Options:**

A.

Flush all MAC addresses from the WLC

B.

Re-associate the WLC with the access point.

C.

Re-enable the WLC interfaces

D.

Reboot the WLC

## Answer

C

### Questions # 45:

What is a specification for SSIDS?

#### Options:

A.

They are a Cisco proprietary security feature.

B.

They must include one number and one letter.

C.

They define the VLAN on a switch.

D.

They are case sensitive.

## Answer

B

### Questions # 46:

>

Refer to the exhibit. What is the cause of the issue?

#### Options:

A.

STP

B.

port security

C.

wrong cable type

D.

shutdown command



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### Answer

C

### Questions # 47:

>

Refer to the exhibit.

A network administrator configures an interface control re switch so that it connects to interface Gi1/0/1 on switch Cat9300-1. Which configuration must be applied to the new interface?

A)

>

B)

>

C)

>

D)

>

### Options:

A.

Option A



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B.

Option B

C.

Option C

D.

Option D



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### Answer

A

### Questions # 48:

>

A)

>

B)

>

C)

>

D)

>

### Options:

A.

Option A

B.

Option B

C.



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Option C

D.

Option D

### Answer

C



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### Questions # 49:

Refer to the exhibit.

>

The New York router must be configured so that traffic to 2000::1 is sent primarily via the Atlanta site, with a secondary path via Washington that has an administrative distance of 2. Which two commands must be configured on the New York router? (Choose two.)

### Options:

A.

ipv6 route 2000::1/128 2012::1

B.

ipv6 route 2000::1/128 2023::2 5

C.

ipv6 route 2000::1/128 2012::1 5

D.

ipv6 route 2000::1/128 2023::3 2

E.

ipv6 route 2000::1/128 2012::2



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### Answer

D, E

## Questions # 50:

An engineer is configuring a switch port that is connected to a VoIP handset. Which command must the engineer configure to enable port security with a manually assigned MAC address of abcd-bod on voice VLAN 4?

### Options:

A.

switchport port-security mac-address abcd.abcd.abcd

B.

switchport port-security mac-address abed.abed.abed vlan 4

C.

switchport port-security mac-address sticky abcd.abcd.abcd vlan 4

D.

switchport port-security mac-address abcd.abcd.abcd vlan voice

### Answer

A

## Questions # 51:

How do traditional campus device management and Cisco DNA Center device management differ in regards to deployment?

### Options:

A.

Traditional campus device management schemes typically deploy patches and updates quicker than Cisco DNA Center device management.

B.

Cisco DNA Center device management is implemented at a lower cost than most traditional campus device management options.

C.

Traditional campus device management allows a network to scale quicker than using Cisco DNA Center device management.

D.

Cisco DNA Center device management deploys a network faster than traditional campus device management.



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### Answer

D

### Questions # 52:

When should an engineer implement a collapsed-core architecture?

#### Options:

A.

for small networks with minimal need for growth

B.

the access and distribution layers must be on the same device

C.

for large networks that are connected to multiple remote sites

D.

only when using VSS technology



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### Answer

C

### Questions # 53:

Why is a first-hop redundancy protocol implemented?

**Options:**

A.

to protect against default gateway failures

B.

to prevent loops in a network

C.

to enable multiple switches to operate as a single unit

D.

to provide load-sharing for a multilink segment

**Answer**

A

Questions # 54:

Refer to the exhibit.

>

Packets are flowing from 192.168.10.1 to the destination at IP address 192.168.20.75. Which next hop will the router select for the packet?

**Options:**

A.

10.10101

B.

10.10.10.11

C.

10.10.10.12

D.

10.101014

## Answer

B

## Explanation

The router will select the next hop based on the longest prefix match in the routing table. The destination IP address 192.168.20.75 belongs to the network 192.168.0.0/19, which is a classless network created by subnetting the classful network 192.168.0.0/16. The routing table has two entries for the network 192.168.0.0/19, one with a metric of 219414 and another with a metric of 5. The router will choose the entry with the lower metric, which is 5, and forward the packet to the next hop 10.10.10.111.

## Questions # 55:

When a WPA2-PSK WLAN is configured in the Wireless LAN Controller, what is the minimum number of characters that is required in ASCII format?

### Options:

A.

6

B.

8

C.

12

D.

18



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## Answer

B

## Questions # 56:

What is a characteristics of a collapsed-core network topology?

**Options:**

A.

It allows the core and distribution layers to run as a single combined layer.

B.

It enables the core and access layers to connect to one logical distribution device over an EtherChannel.

C.

It enables all workstations in a SOHO environment to connect on a single switch with internet access.

D.

It allows wireless devices to connect directly to the core layer, which enables faster data transmission.

**Answer**

B

Questions # 57:

What must be considered before deploying virtual machines?

**Options:**

A.

location of the virtual machines within the data center environment

B.

whether to leverage VSM to map multiple virtual processors to two or more virtual machines

C.

resource limitations, such as the number of CPU cores and the amount of memory

D.

support for physical peripherals, such as monitors, keyboards, and mice

### Answer

C

### Questions # 58:

Refer to the exhibit.

>

A network engineer configures the CCNA WLAN so that clients must authenticate hourly and to limit the number of simultaneous connections to the WLAN to Which two actions complete this configuration? (Choose two.)

### Options:

A.

Enable the Enable Session Timeout option and set the value to 3600.

B.

Set the Maximum Allowed Clients value to 10.

C.

Enable the Client Exclusion option and set the value to 3600.

D.

Enable the Wi-Fi Direct Clients Policy option.

E.

Set the Maximum Allowed Clients Per AP Radio value to 10.

### Answer

A, B

Questions # 59:

Which two capabilities of Cisco DNA Center make it more extensible as compared to traditional campus device management? (Choose two.)

**Options:**

A.

REST APIs that allow for external applications to interact natively

B.

adapters that support all families of Cisco IOS software

C.

SDKs that support interaction with third-party network equipment

D.

customized versions for small, medium, and large enterprises

E.

modular design that is upgradable as needed

**Answer**

A, C

Questions # 60:

Refer to the exhibit.

>

How many JSON objects are represented?

**Options:**

A.

1

- B.
- 2
- C.
- 3
- D.
- 4



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### Answer

D

### Questions # 61:

>

Refer to the exhibit. An engineer configured the New York router with static routes that point to the Atlanta and Washington sites. Which command must be configured on the Atlanta and Washington routers so that both sites are able to reach the Lo2 interface on the New York router?

### Options:

- A.

ipv6 route ::/0 Serial 0/0/0

- B.

ipv6 route 0.0.0.0 0.0.0.0 Serial 0/0/0

- C.

ipv6 route ::/0 2000::2

- D.

ipv6 route ::/0 Serial 0/0/1



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## Answer

A

### Questions # 62:

Why is TCP desired over UDP for application that require extensive error checking, such as HTTPS?

#### Options:

A.

UDP operates without acknowledgments, and TCP sends an acknowledgment for every packet received.

B.

UDP reliably guarantees delivery of all packets, and TCP drops packets under heavy load.

C.

UDP uses flow control mechanisms for the delivery of packets, and TCP uses congestion control for efficient packet delivery.

D.

UDP uses sequencing data for packets to arrive in order, and TCP offers receive capability to receive packets in random order.

## Answer

A

### Questions # 63:

Which device separates networks by security domains?

#### Options:

A.

firewall

B.

access point

C.

intrusion protection system

D.

wireless controller



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### Answer

A

### Explanation

Firewalls are devices that are used to separate networks into different security domains. They act as a barrier between two networks and control the flow of traffic between them. Firewalls use a set of rules to determine what types of traffic are allowed to pass through and what is blocked. This helps protect a network from malicious traffic and unauthorized access. Additionally, firewalls can be configured to log traffic and provide additional security measures such as packet filtering and stateful inspection.

### Questions # 64:

>

Refer to the exhibit. An engineer is building a new Layer 2 LACP EtherChannel between SW1 and SW2. and they executed the given show commands to verify the work Which additional task must be performed so that the switches successfully bundle the second member in the LACP port-channel?

### Options:

A.

Configure the switchport trunk allowed vlan 300 command on SW1 port-channel 1

B.

Configure the switchport trunk allowed vlan 300 command on interface Fa0/2 on SW1.

C.

Configure the switchport trunk allowtd vlan add 300 command on interface FaO 2 on SW2.

D.

Configure the switchport trunk allowtd vlan add 300 command on SW1 port-channel 1

### Answer

B

### Questions # 65:

A switch is forwarding a frame out of all interfaces except the interface that received the frame. What is the technical term for this process?

### Options:

A.

ARP

B.

Multicast

C.

CDP

D.

Flooding

### Answer

D

### Questions # 66:

A DHCP pool has been created with the name NOCC. The pool is using 192.168.20.0/24 and must use the next to last usable IP address as the default gateway for the DHCP clients. What is the next step in the process?

**Options:**

A.

default-router 192.168.20.253

B.

network 192.168.20.254 255.255.255.0 secondary

C.

ip default-gateway 0.0.0.0 0.0.0.0 192.168.20.253

D.

next-server 192.168.20.254

**Answer**

A

Questions # 67:

When is the PUT method used within HTTP?

**Options:**

A.

when a nonidempotent operation is needed

B.

to update a DNS server

C.

to display a web site

D.

when a read-only operation it required

## Answer

B

### Questions # 68:

What is a valid IPv6 address record in DNS?

#### Options:

A.

A

B.

MX

C.

AAAA

D.

CNAME

## Answer

C

### Questions # 69:

How does MAC learning function on a switch?

#### Options:

A.

broadcasts frames to all ports without queueing

B.

adds unknown source MAC addresses to the address table

C.

sends a retransmission request when a new frame is received

D.

sends frames with unknown destinations to a multicast group

**Answer**

B



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Questions # 70:

Drag and drop the characteristics of transport layer protocols from the left onto the corresponding protocols on the right.

>

**Options:**

**Answer**

Answer: >

Questions # 71:

Which access point mode relies on a centralized controller for management, roaming, and SSID configuration?

**Options:**

A.

repeater mode

B.

autonomous mode

C.



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bridge mode

D.

lightweight mode

### Answer

D

### Questions # 72:

What should a network administrator consider when deciding to implement automation?

#### Options:

A.

Automated systems may have difficulty expanding network changes at scale.

B.

Network automation typically is limited to the configuration and management of virtual devices within a network.

C.

Network automation typically increases enterprise management operating costs.

D.

Manual changes frequently lead to configuration errors and inconsistencies.

### Answer

D

#### Explanation

When deciding to implement automation, a network administrator should consider the benefits and challenges associated with automation. Option D highlights one of the key reasons for implementing automation—manual changes often result in configuration errors and inconsistencies. Automating repetitive and error-prone tasks can help improve the accuracy and reliability of network configurations.

## Questions # 73:

>

Refer to the exhibit. A network administrator is configuring a router for user access via SSH. The service-password encryption command has been issued. The configuration must meet these requirements:

- Create the username as CCUser.
- Create the password as NA!2ScC.
- Encrypt the user password.

What must be configured to meet the requirements?

### Options:

A.

```
username CCUser privies 10 password NA!2ScC
```

B.

```
username CCUser password NA!2ScC enable password level 5 NA!2$cc
```

C.

```
username CCUser secret NA!2ScC
```

D.

```
username CCUser privilege 15 password NA!2ScC enable secret 0 NA!2$cc
```

### Answer

B

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