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Exam : **350-401**

Title : Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

Version : V9.02

1.Which function does a fabric edge node perform in an SD-Access deployment?
A. Connects endpoints to the fabric and forwards their traffic.
B. Encapsulates end-user data traffic into LISP.
C. Connects the SD-Access fabric to another fabric or external Layer 3 networks.
D. Provides reachability between border nodes in the fabric underlay.
Answer: A

2.Refer to the exhibit.

```
R1# sh run | begin line con
line con 0
  exec timeout 0 0
  privilege level 15
  logging synchronous
  stopbits 1
line aux o
  exec timeout 0 0
  privilege level 15
  logging synchronous
  stopbits 1
line vty 0 4
  password 7 045802150C2E
  login
line vty 5 15
  password 7 045802150C2E
  login
l
end
```

```
R1# sh run | include aaa | enable
no aaa new-model
R1#
```

Which privilege level is assigned to VTY users?
A. 1
B. 7
C. 13
D. 15
Answer: A

3.What is the difference between a RIB and a FIB?
A. The FIB is populated based on RIB content.

B. The RIB maintains a minor image of the FIB.
C. The RIB is used to make IP source prefix-based switching decisions.
D. The FIB is where all IP routing information is stored.
Answer: A

4.Which requirement for an Ansiblemanaged node is true?
A. It must have an SSH server running.
B. It must be a Linux server or a Cisco device.
C. It must support ad hoc commands.
D. It must have an Ansible Tower installed.
Answer: A

5.A client device fails to see the enterprise SSID, but other client devices are connected to it.
What is the cause of this issue?
A. The client has incorrect credentials stored for the configured broadcast SSID.
B. The hidden SSID was not manually configured on the client.
C. The broadcast SSID was not manually configured on the client.
D. The client has incorrect credentials stored for the configured hidden SSID.
Answer: B

6.Which two descriptions of FlexConnect mode for Cisco APs are true? (Choose two.)
A. APs that operate in FlexConnect mode cannot detect rogue APs.
B. When connected to the controller, FlexConnect APs can tunnel traffic back to the controller.
C. FlexConnect mode is used when the APs are set up in a mesh environment and used to bridge between each other.
C. FlexConnect mode is a feature that is designed to allow specified CAPWAP-enabled APs to exclude themselves from managing data traffic between dents and infrastructure.
D. FlexConnect mode is a wireless solution for branch office and remote office deployments.
Answer: AB
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-2/configuration/guide/cg/cg_flexconnect.html

7.Which OSPF network types are compatible and allow communication through the two peering devices?
A. point-to-multipoint to nonbroadcast
B. broadcast to nonbroadcast
C. point-to-multipoint to broadcast
D. broadcast to point-to-point
Answer: B
Explanation:
Reference: https://www.freeccnaworkbook.com/workbooks/ccna/configuring-ospf-network-types

8.Which NGFW mode blocks flows crossing the firewall?
A. tap

B. inline
C. passive
D. inline tap
Answer: B
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/security/firepower-ngfw/200924-configuring-firepower-threat-defense-int.html

9.Which statement about route targets is true when using VRF-Lite?
A. Route targets control the import and export of routes into a customer routing table.
B. When BGP is configured, route targets are transmitted as BGP standard communities.
C. Route targets allow customers to be assigned overlapping addresses.
D. Route targets uniquely identify the customer routing table.
Answer: A

10.How does Cisco TrustSec enable more flexible access controls for dynamic networking environments and data centers?
A. uses flexible NetFlow
B. assigns a VLAN to the endpoint
C. classifies traffic based on advanced application recognition
D. classifies traffic based on the contextual identity of the endpoint rather than its IP address
Answer: D
Explanation:
Reference:
https://www.cisco.com/c/dam/en/us/products/collateral/security/identity-services-engine/at_a_glance_c45-726831.pdf

11.Refer to the exhibit.

```
R1#debug ip ospf hello
R1#debug condition interface Fa0\1
        Condition 1 Set
```

Which statement about the OPSF debug output is true?
A. The output displays OSPF hello messages which router R1 has sent or received on interface Fa0/1.
B. The output displays OSPF messages which router R1 has sent or received on all interfaces.
C. The output displays OSPF messages which router R1 has sent or received on interface Fa0/1.
D. The output displays OSPF hello and LSACK messages which router R1 has sent or received.
Answer: A

12.Which LISP infrastructure device provides connectivity between non-LISP sites and LISP sites by receiving non-LISP traffic with a LISP site destination?
A. PITR
B. map resolver
C. map server

D. PETR
Answer: A
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/5-0/LISPmobility/DCI_LISP_Host_Mobility/LISPmobile_2.html

13.Which two protocols are used with YANG data models? (Choose two.)
A. TLS
B. RESTCONF
C. SSH
D. NETCONF
E. HTTPS
Answer: BD

14.Which HTTP status code is the correct response for a request with an incorrect password applied to a REST API session?
A. HTTP Status Code: 200
B. HTTP Status Code: 302
C. HTTP Status Code: 401
D. HTTP Status Code: 504
Answer: C
Explanation:
Reference: https://developer.mozilla.org/en-US/docs/Web/HTTP/Status/401

15.The login method is configured on the VTY lines of a router with these parameters.
- The first method for authentication is TACACS
- If TACACS is unavailable, login is allowed without any provided credentials
Which configuration accomplishes this task?
A）

```
R1#sh run | include aaa
aaa new-model
aaa authentication login telnet group tacacs+ none
aaa session-id common

R1#sh run | section vty
line vty 0 4

R1#sh run | include username
R1#
```

B)

```
R1#sh run | include aaa
aaa new-model
aaa authentication login default group tacacs+
aaa session-id common

R1#sh run | section vty
line vty 0 4
 transport input none
R1#
```

C)

```
R1#sh run | include aaa
aaa new-model
aaa authentication login VTY group tacacs+ none
aaa session-id common

R1#sh run | section vty
line vty 0 4
 password 7 02050D480809

R1#sh run | include username
R1#
```

D)

```
R1#sh run | include aaa
aaa new-model
aaa authentication login default group tacacs+ none
aaa session-id common

R1#sh run | section vty
line vty 0 4
 password 7 02050D480809

R1#sh run | include username
R1#
```

A. Option A
B. Option B
C. Option C
D. Option D
Answer: D

16.Which statement about multicast RPs is true?
A. RPs are required only when using protocol independent multicast dense mode.
B. RPs are required for protocol independent multicast sparse mode and dense mode.
C. By default, the RP is needed periodically to maintain sessions with sources and receivers.
D. By default, the RP is needed only to start new sessions with sources and receivers.
Answer: D
Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/ios/solutions_docs/ip_multicast/White_papers/rps.html

17.To increase total throughput and redundancy on the links between the wireless controller and switch, the customer enabled LAG on the wireless controller.
Which EtherChannel mode must be configured on the switch to allow the WLC to connect?
A. Active
B. Passive
C. On
D. Auto
Answer: C
Explanation:
Reference:
https://community.cisco.com/t5/wireless-mobility-documents/lag-link-aggregation/ta-p/3128669

18.Which feature does Cisco TrustSec use to provide scalable, secure communication throughout a network?
A. security group tag ACL assigned to each port on a switch
B. security group tag number assigned to each user on a switch
C. security group tag number assigned to each port on a network
D. security group tag ACL assigned to each router on a network
Answer: B
Explanation:
Reference:
https://www.cisco.com/c/dam/en/us/solutions/collateral/borderless-networks/trustsec/C07-730151-00_overview_of_trustSec_og.pdf

19.An engineer configures a WLAN with fast transition enabled. Some legacy clients fail to connect to this WLAN.
Which feature allows the legacy clients to connect while still allowing other clients to use fast transition based on their OUIs?
A. over the DS
B. 802.11k
C. adaptive R
D. 802.11v
Answer: C

20.Which exhibit displays a valid JSON file?

A)

```
{
    "hostname": "edge_router_1"
    "interfaces": {
          "GigabitEthernet1/1"
          "GigabitEthernet1/2"
          "GigabitEthernet1/3"
    }
}
```

B)

```
{
    "hostname": "edge_router_1",
    "interfaces": {
          "GigabitEthernet1/1",
          "GigabitEthernet1/2",
          "GigabitEthernet1/3",
    },
}
```

C)

```
{
    "hostname": "edge_router_1"
    "interfaces": [
          "GigabitEthernet1/1"
          "GigabitEthernet1/2"
          "GigabitEthernet1/3"
    ]
}
```

D)

```
{
    "hostname": "edge_router_1",
    "interfaces": [
          "GigabitEthernet1/1",
          "GigabitEthernet1/2",
          "GigabitEthernet1/3"
    ]
}
```

A. Option A

B. Option B

C. Option C

D. Option D
Answer: B

21.A network administrator is implementing a routing configuration change and enables routing debugs to track routing behavior during the change. The logging output on the terminal is interrupting the command typing process.
Which two actions can the network administrator take to minimize the possibility of typing commands incorrectly? (Choose two.)
A. Configure the logging synchronous global configuration command.
B. Configure the logging synchronous command under the vty.
C. Increase the number of lines on the screen using the terminal length command.
D. Configure the logging delimiter feature.
E. Press the TAB key to reprint the command in a new line.
Answer: AB

22.Which two pieces of information are necessary to compute SNR? (Choose two.)
A. transmit power
B. noise floor
C. EIRPD. RSSI
E. antenna gain
Answer: AB
Explanation:
Reference:
https://community.cisco.com/t5/wireless-mobility-documents/snr-rssi-eirp-and-free-space-path-loss/ta-p/3128478

23.Which statements are used for error handling in Python?
A. try/catch
B. catch/release
C. block/rescue
D. try/except
Answer: D

24.What are two benefits of virtualizing the server with the use of VMs in a data center environment? (Choose two.)
A. reduced rack space, power, and cooling requirements
B. smaller Layer 2 domain
C. increased security
D. speedy deployment
E. reduced IP and MAC address requirements
Answer: AD

25.Which two steps are required for a complete Cisco DNA Center upgrade? (Choose two.)
A. automation backup

B. system update
C. golden image selection
D. proxy configuration
E. application updates
Answer: AB

26.What is a benefit of data modeling languages like YANG?
A. They create more secure and efficient SNMP OIDs.
B. They provide a standardized data structure, which results in configuration scalability and consistency.
C. They enable programmers to change or write their own applications within the device operating system.
D. They make the CLI simpler and more efficient.
Answer: B

27.Refer to the exhibit.

Name is Bob Johnson
Age is 75
is alive

Favorite foods are:
• Cereal
• Mustard
• Onions

What is the JSON syntax that is formed from the data?
A. {Name: Bob Johnson, Age: 75, Alive: true, Favorite Foods: [Cereal, Mustard, Onions]}
B. {“Name”: “Bob Johnson”, “Age”: 75, “Alive”: true, “Favorite Foods”: [“Cereal”, “Mustard”, “Onions”]}
C. {‘Name’: ‘Bob Johnson’, ‘Age’: 75, ‘Alive’: True, ‘Favorite Foods’: ‘Cereal’, ‘Mustard’, ‘Onions’}
D. {“Name”: “Bob Johnson”, “Age”: Seventyfive, “Alive”: true, “Favorite Foods”: [“Cereal”, “Mustard”, “Onions”]}
Answer: B

28.Based on this interface configuration, what is the expected state of OSPF adjacency?

R1:

```
interface GigabitEthernet0/1
  ip address 192.0.2.1 255.255.255.252
  ip ospf 1 area 0
  ip ospf hello-interval 2
  ip ospf cost 1
end
```

R2:

```
interface GigabitEthernet0/1
  ip address 192.0.2.2 255.255.255.252
  ip ospf 1 area 0
  ip ospf cost 500
end
```

A. 2WAY/DROTHER on both routers

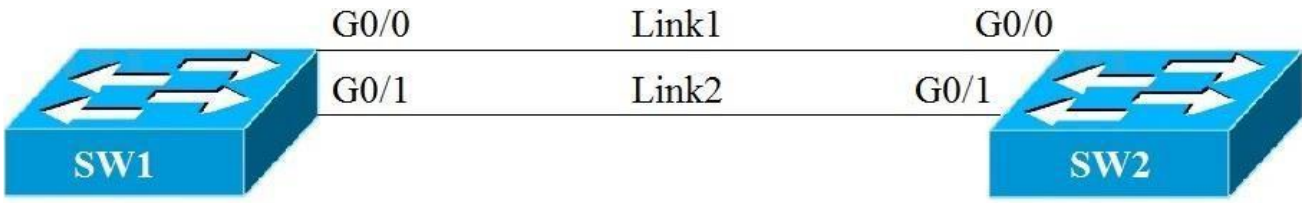
B. not established

C. FULL on both routers

D. FULL/BDR on R1 and FULL/BDR on R2

Answer: B

29.Refer to the exhibit.




```
SW2#show spanning-tree

 VLAN0001

   Spanning tree enabled protocol ieee

   Root ID     Priority    32769
               Address     5000.0005.0000
               Cost        4
               Port        1 (GigabitEthernet0/0)
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

   Bridge ID   Priority    32769 (priority 32769 sys-id-ext 1)
               Address     5000.0006.0000
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
               Aging Time  300 sec

Interface           Role  Sts  Cost  Prio.libr  Type
---------------     ----  ---  ----  --------  --------------------

Gi0/0               Root  FWD   4    128.1      P2p
Gi0/1               Alto  BLW   4    32.2       P2p
```

Link1 is a copper connection and Link2 is a fiber connection. The fiber port must be the primary port for all forwarding. The output of the show spanning-tree command on SW2 shows that the fiber port is blocked by spanning tree. An engineer enters the spanning-tree port-priority 32 command on G0/1 on SW2, but the port remains blocked.

Which command should be entered on the ports that are connected to Link2 to resolve the issue?

A. Enter spanning-tree port-priority 4 on SW2.

B. Enter spanning-tree port-priority 32 on SW1.

C. Enter spanning-tree port-priority 224 on SW1.

D. Enter spanning-tree port-priority 64 on SW2.

Answer: B

30.Which JSON syntax is valid?

A. {“switch”: “name”: “dist1”, “interfaces”: [“gig1”, “gig2”, “gig3”]}

B. {/“switch/”: {/“name/”: “dist1”, /“interfaces/”: [“gig1”, “gig2”, “gig3”]}}

C. {“switch”: {“name”: “dist1”, “interfaces”: [“gig1”, “gig2”, “gig3”]}}

D. {‘switch’: (‘name’: ‘dist1’, ‘interfaces’: [‘gig1’, ‘gig2’, ‘gig3’])}

Answer: A

31.What are two common sources of interference for Wi-Fi networks? (Choose two.)

A. LED lights

B. radar

C. fire alarm
D. conventional oven
E. rogue AP
Answer: AE

32.When using TLS for syslog, which configuration allows for secure and reliable transportation of messages to its default port?
A. logging host 10.2.3.4 vrf mgmt transport tcp port 514
B. logging host 10.2.3.4 vrf mgmt transport udp port 514
C. logging host 10.2.3.4 vrf mgmt transport tcp port 6514
D. logging host 10.2.3.4 vrf mgmt transport udp port 6514
Answer: C
Explanation:
Reference: https://tools.ietf.org/html/rfc5425

33.Which behavior can be expected when the HSRP version is changed from 1 to 2?
A. No changes occur because the standby router is upgraded before the active router.
B. No changes occur because version 1 and 2 use the same virtual MAC OUI.
C. Each HSRP group reinitializes because the virtual MAC address has changed.
D. Each HSRP group reinitializes because the multicast address has changed.
Answer: C

34.Which protocol does REST API rely on to secure the communication channel?
A. HTTP
B. SSH
C. HTTPS
D. TCP
Answer: C

35.Refer to this output.
R1# *Feb 14 37:09:53.129: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
What is the logging severity level?
A. notification
B. emergency
C. critical
D. alert
Answer: A

36.Refer to the exhibit.

```
R1#show ip bgp
BGP table version is 32, local router ID is 192.168.101.5
Status codes: S suppressed, d damped, h history, *valid, > best, i - internal,
              r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,
              x best-external, a additional-path, c RIB-compressed,
Origin codes: i - IGP, e - EGP, ? - incomplete
RPKI validation codes: V valid, I invalid, N Not found
     Network          Next Hop            Metric LocPrf Weight Path
*    192.168.102.0    192.168.101.18         80             0 64517i
*                     192.168.101.14         80         80  0 64516i
*                     192.168.101.10                        0 64515 64515i
*>                    192.168.101.2                     32768 64513i
*                     192.168.101.6                      80 0 64514 64514i
```

Which IP address becomes the active next hop for 192.168.102.0/24 when 192.168.101.2 fails?

A. 192.168.101.10

B. 192.168.101.14

C. 192.168.101.6

D. 192.168.101.18

Answer: D

37.Which PAgP mode combination prevents an EtherChannel from forming?

A. auto/desirable

B. desirable/desirable

C. desirable/auto

D. auto/auto

Answer: D

Explanation:

Reference:

https://www.omnisecu.com/cisco-certified-network-associate-ccna/etherchannel-pagp-and-lacp-modes.php

38.If a VRRP master router fails, which router is selected as the new master router?

A. router with the lowest priority

B. router with the highest priority

C. router with the highest loopback address

D. router with the lowest loopback address

Answer: B

39.Which QoS component alters a packet to change the way that traffic is treated in the network?

A. policing

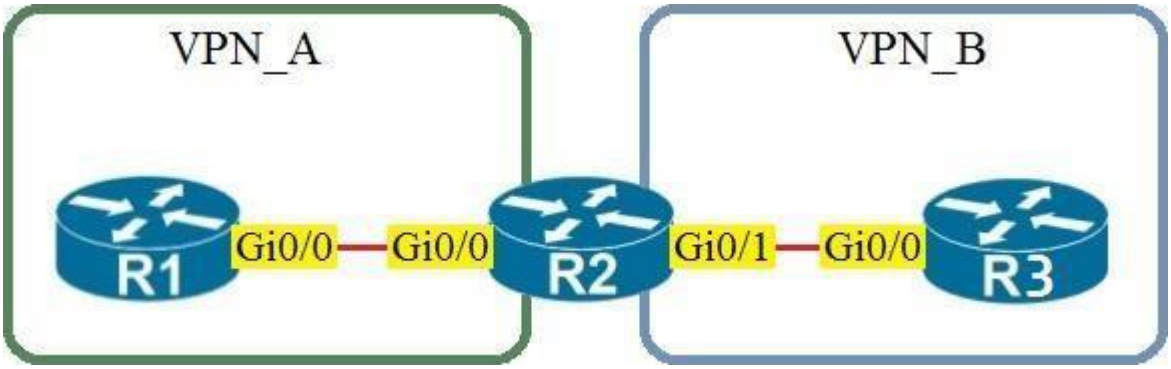
B. classification

C. marking

D. shaping

Answer: C

40.Refer to the exhibit.



Assuming that R1 is a CE router, which VRF is assigned to Gi0/0 on R1?

A. default VRF

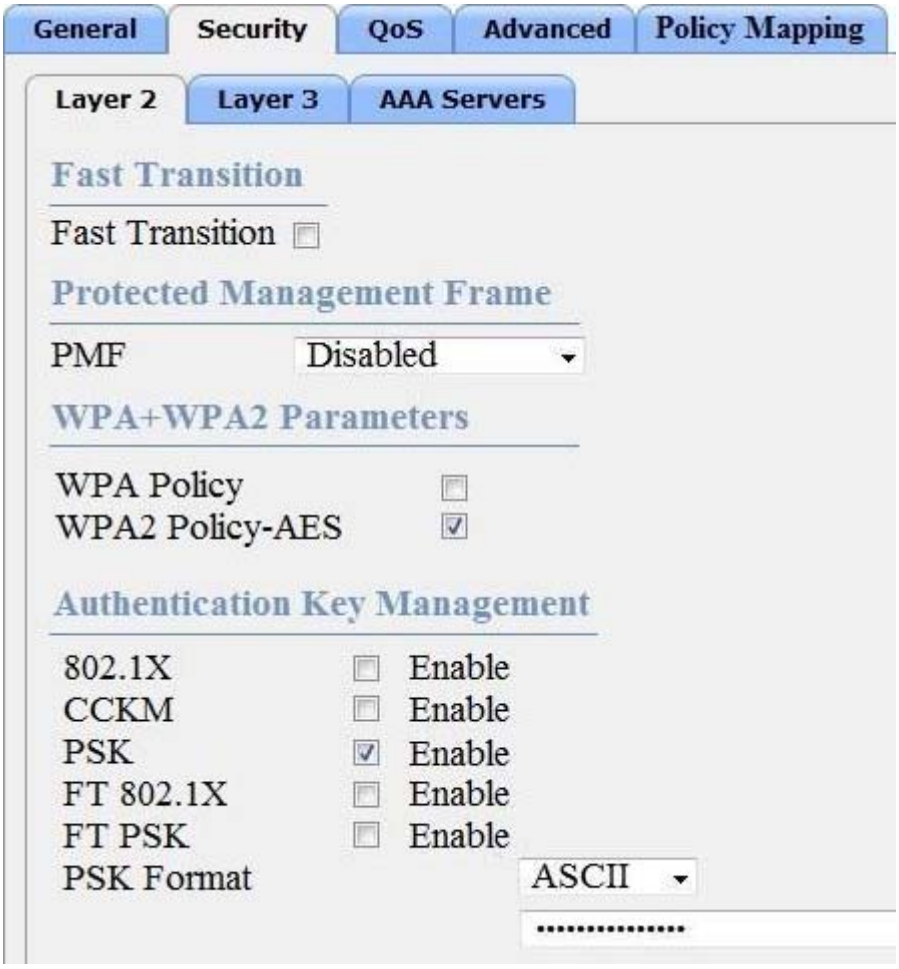
B. VRF VPN_A

C. VRF VPN_B

D. management VRF

Answer: A

41.Refer to the exhibit.



Based on the configuration in this WLAN security setting, which method can a client use to authenticate to

the network?
A. text string
B. username and password
C. RADIUS token
D. certificate
Answer: A

42.Which two mechanisms are available to secure NTP? (Choose two.)
A. IPsec
B. IP prefix list-based
C. encrypted authentication
D. TACACS-based authentication
E. IP access list-based
Answer: CE
Explanation:
Reference:
https://www.cisco.com/c/dam/en/us/td/docs/ios-xml/ios/bsm/configuration/xe-3se/3650/bsm-xe-3se-3650-book.html

43.Which technology provides a secure communication channel for all traffic at Layer 2 of the OSI model?
A. SSL
B. Cisco TrustSec
C. MACsec
D. IPsec
Answer: C

44.Refer to the exhibit.

```
Extended IP access list EGRESS
10 permit ip 10.0.0.0.0.0.0.255 any
!
<Output Omitted>
!
interface GigabitEthernet0/0
ip address 209.165.200.225  255.255.255.0
ip access-group EGRESS out
duplex auto
speed auto
media-type rj45
!
```

An engineer must block all traffic from a router to its directly connected subnet 209.165.200.0/24. The engineer applies access control list EGRESS in the outbound direction on the GigabitEthernet0/0 interface of the router.
However, the router can still ping hosts on the 209.165.200.0/24 subnet.

Which explanation of this behavior is true?
A. Access control lists that are applied outbound to a router interface do not affect traffic that is sourced from the router.
B. After an access control list is applied to an interface, that interface must be shut and no shut for the access control list to take effect.
C. Only standard access control lists can block traffic from a source IP address.
D. The access control list must contain an explicit deny to block traffic from the router.
Answer: A

45.Which two methods are used by an AP that is trying to discover a wireless LAN controller? (Choose two.)
A. Cisco Discovery Protocol neighbor
B. querying other APs
C. DHCP Option 43
D. broadcasting on the local subnet
E. DNS lookup CISCO-DNA-PRIMARY.localdomain
Answer: CD
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/119286-lap-notjoin-wlc-tshoot.html#backinfo

46.Which IP SLA operation requires the IP SLA responder to be configured on the remote end?
A. UDP jitter
B. ICMP jitter
C. TCP connect
D. ICMP echo
Answer: A
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/46sg/configuration/guide/Wrapper-46SG/swipsla.pdf

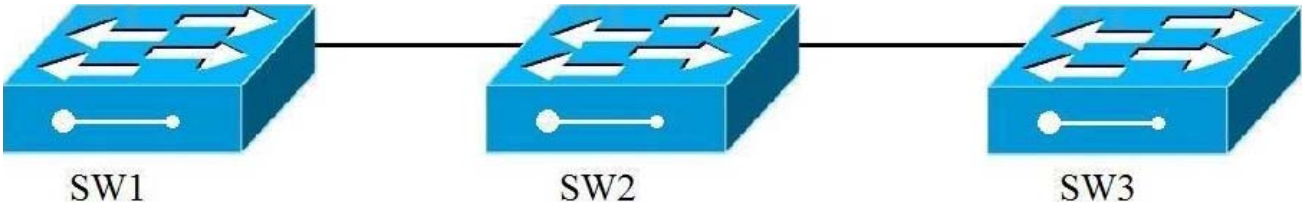
47.Which statement explains why Type 1 hypervisor is considered more efficient than Type2 hypervisor?
A. Type 1 hypervisor is the only type of hypervisor that supports hardware acceleration techniques.
B. Type 1 hypervisor relies on the existing OS of the host machine to access CPU, memory, storage, and network resources.
C. Type 1 hypervisor runs directly on the physical hardware of the host machine without relying on the underlying OS.
D. Type 1 hypervisor enables other operating systems to run on it.
Answer: C

48.A client with IP address 209.165.201.25 must access a web server on port 80 at 209.165.200.225. To allow this traffic, an engineer must add a statement to an access control list that is applied in the inbound

direction on the port connecting to the web servers.
Which statement allows this traffic?
A. permit tcp host 209.165.200.225 lt 80 host 209.165.201.25
B. permit tcp host 209.165.201.25 host 209.165.200.225 eq 80C. permit tcp host 209.165.200.225 eq 80 host 209.165.201.25
D. permit tcp host 209.165.200.225 host 209.165.201.25 eq 80
Answer: D

49.In OSPF, which LSA type is responsible for pointing to the ASBR router?
A. type 1
B. type 2
C. type 3
D. type 4
Answer: D

50.Refer to the exhibit.



VLANs 50 and 60 exist on the trunk links between all switches. All access ports on SW3 are configured for VLAN 50 and SW1 is the VTP server.
Which command ensures that SW3 receives frames only from VLAN 50?
A. SW1(config)#vtp mode transparent
B. SW3(config)#vtp mode transparent
C. SW2(config)#vtp pruning
D. SW1(config)#vtp pruning
Answer: D
Explanation:
Reference: https://www.orbit-computer-solutions.com/vtp-pruning/

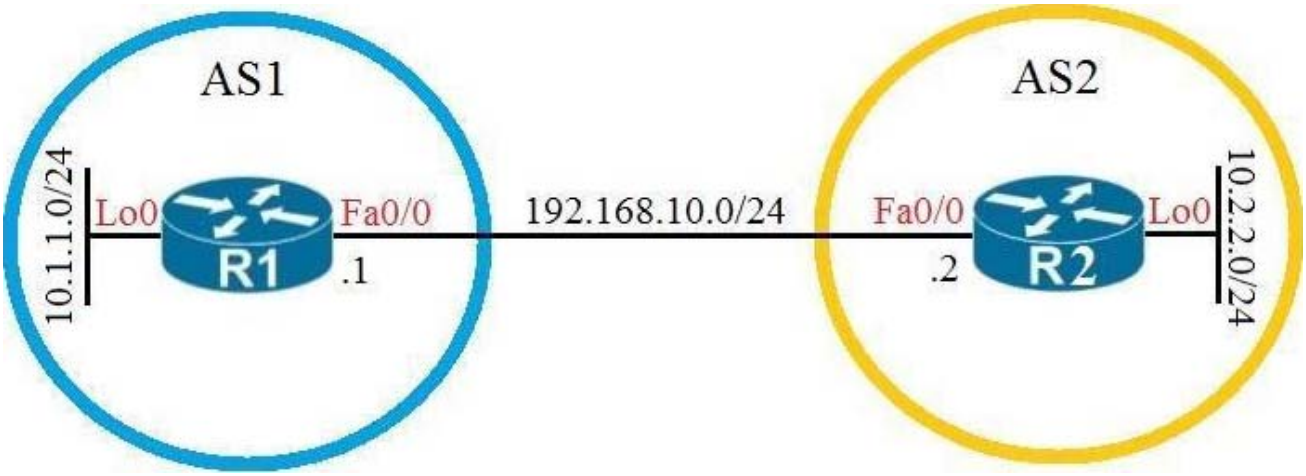
51.Which statement about a fabric access point is true?
A. It is in local mode and must be connected directly to the fabric edge switch.
B. It is in local mode and must be connected directly to the fabric border node
C. It is in FlexConnect mode and must be connected directly to the fabric border node.
D. It is in FlexConnect mode and must be connected directly to the fabric edge switch.
Answer: A
Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/solutions/CVD/Campus/sda-sdg-2019oct.html

52.Which First Hop Redundancy Protocol maximizes uplink utilization and minimizes the amount of configuration that is necessary?
A. GLBP

B. HSRP v2
C. VRRP
D. HSRP v1
Answer: A

53.Which standard access control entry permits traffic from odd-numbered hosts in the 10.0.0.0/24 subnet?
A. permit 10.0.0.0 0.0.0.1
B. permit 10.0.0.1 0.0.0.254
C. permit 10.0.0.1 0.0.0.0
D. permit 10.0.0.0 255.255.255.254
Answer: B

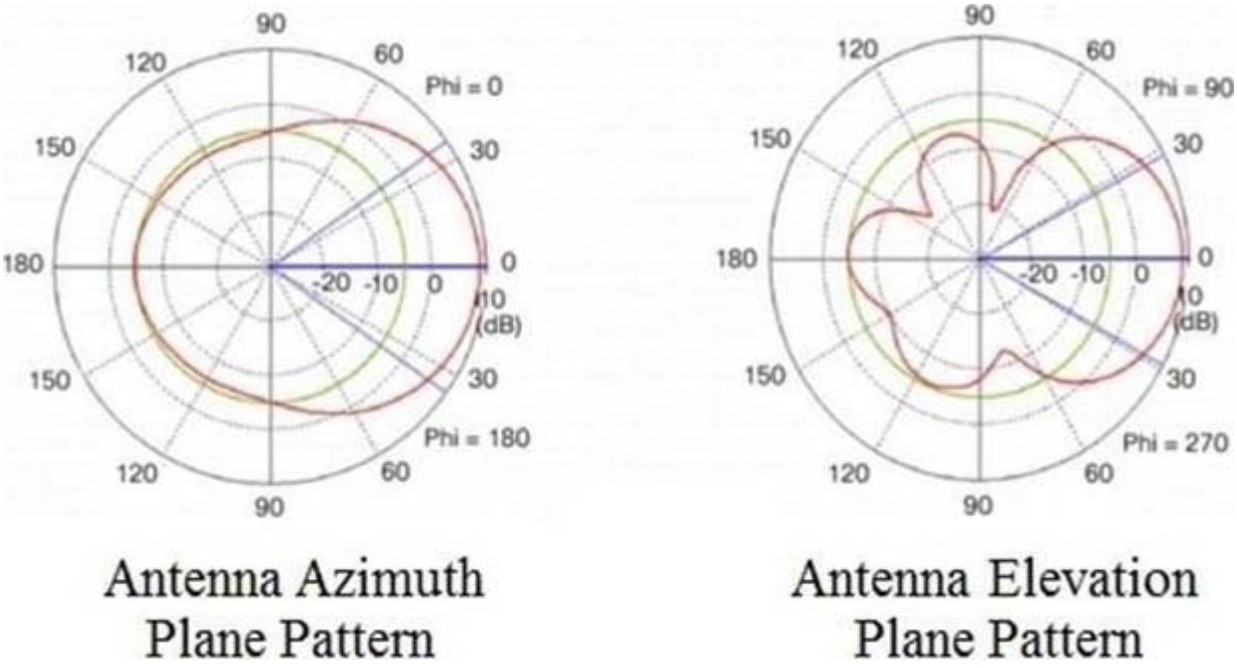
54.Refer to the exhibit.



Which configuration establishes EBGP connected neighborship between these two directly connected neighbors and exchanges the loopback network of the two routers through BGP?
A. R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0
R2(config)#router bgp 2
R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
B. R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#network 10.1.1.0 mask 255.255.255.0
R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
C. R1(config)#router bgp 1
R1(config-router)#neighbor 192.168.10.2 remote-as 2
R1(config-router)#network 10.0.0.0 mask 255.0.0.0
R2(config)#router bgp 2

R2(config-router)#neighbor 192.168.10.1 remote-as 1
R2(config-router)#network 10.0.0.0 mask 255.0.0.0
D. R1(config)#router bgp 1
R1(config-router)#neighbor 10.2.2.2 remote-as 2
R1(config-router)#neighbor 10.2.2.2 update-source |o0
R1(config-router)#network 10.1.1.0 mask 255.255.255.0
R2(config)#router bgp 2
R2(config-router)#neighbor 10.1.1.1 remote-as 1
R2(config-router)#neighbor 10.1.1.1 update-source |o0
R2(config-router)#network 10.2.2.0 mask 255.255.255.0
Answer: A

55.Refer to the exhibit.



Which type of antenna do the radiation patterns present?
A. Yagi
B. patch
C. omnidirectional
D. dipole
Answer: B
Explanation:
Reference:
https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-antennas-accessories/prod_white_paper0900aecd806a1a3e.html

56.Which method creates an EEM applet policy that is registered with EEM and runs on demand or manually?
A. event manager applet ondemand event none
action 1.0 syslog priority critical msg ‘This is a message from ondemand’

B. event manager applet ondemand action 1.0 syslog priority critical msg
'This is a message from ondemand' C. event manager applet ondemand
event register
action 1.0 syslog priority critical msg 'This is a message from ondemand'
D. event manager applet ondemand event manual action 1.0 syslog priority
critical msg 'This is a message from ondemand'
Answer: A

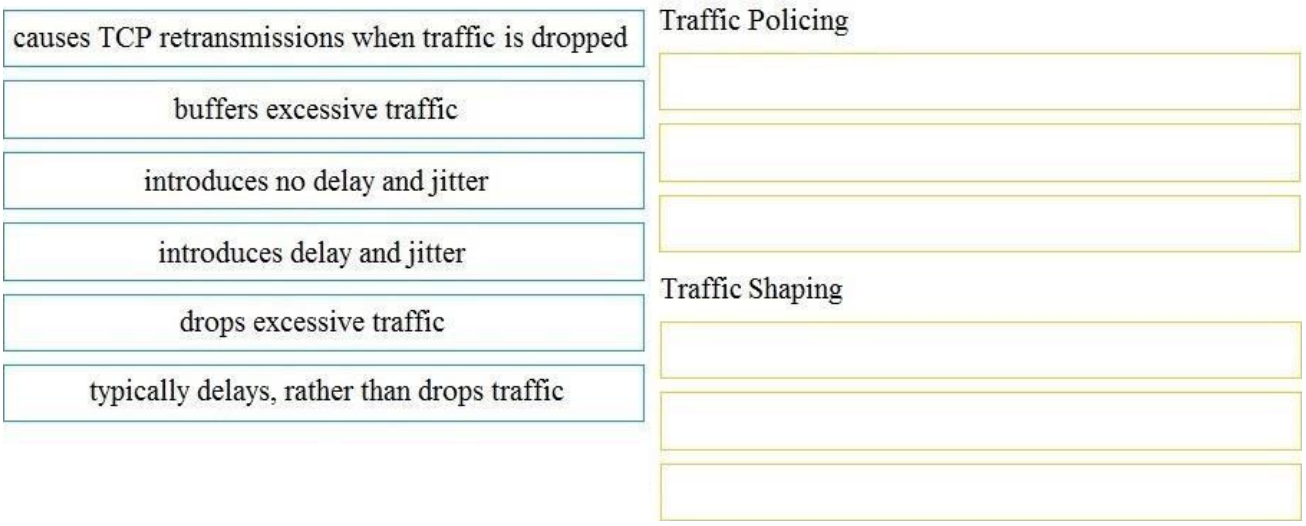
57.An engineer is configuring local web authentication on a WLAN. The engineer chooses the Authentication radio button under the Layer 3 Security options for Web Policy.
Which device presents the web authentication for the WLAN?
A. ISE server
B. RADIUS server
C. anchor WLC
D. local WLC
Answer: D

58.Which controller is the single plane of management for Cisco SD-WAN?
A. vBond
B. vSmart
C. vManage
D. vEdge
Answer: C
Explanation:
Reference:
https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/SDWAN/CVD-SD-WAN-Design-2018OCT.pdf

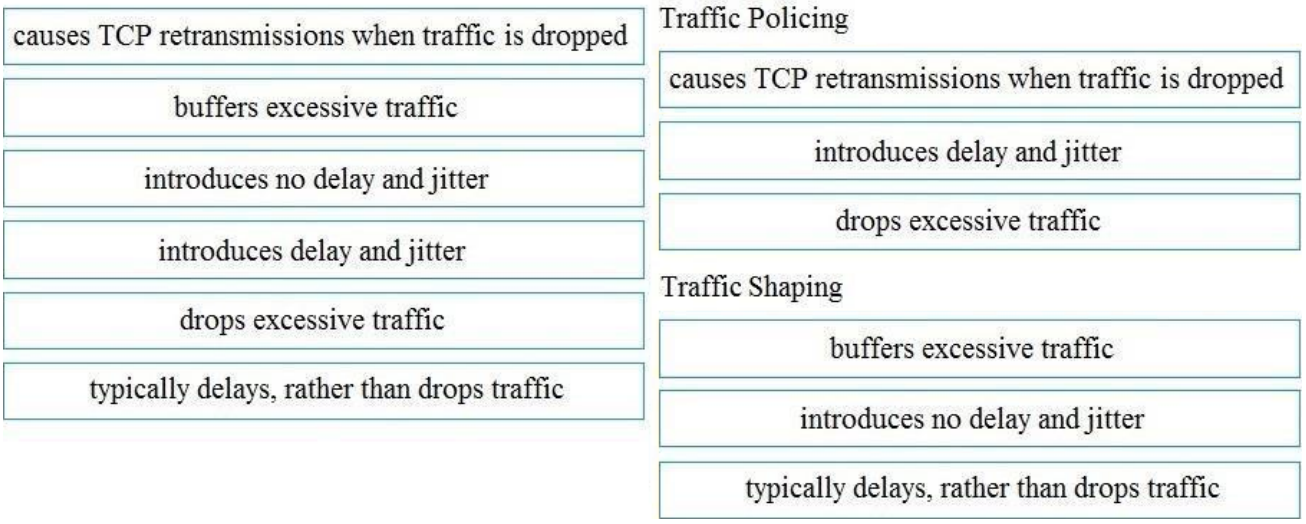
59.A network is being migrated from IPv4 to IPv6 using a dual-stack approach. Network management is already 100% IPv6 enabled.
In a dual-stack network with two dual-stack NetFlow collectors, how many flow exporters are needed per network device in the flexible NetFlow configuration?
A. 1
B. 2
C. 4
D. 8
Answer: B

60.DRAG DROP
Drag and drop the descriptions from the left onto the correct QoS components on the right.

Answer Area



Answer:
Answer Area



61.Which statement about TLS is true when using RESTCONF to write configurations on network devices?
A. It is used for HTTP and HTTPS requests.
B. It requires certificates for authentication.
C. It is provided using NGINX acting as a proxy web server.
D. It is not supported on Cisco devices.
Answer: C
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/b_166_programmability_cg_chapter_01011.html

62.Which reason could cause an OSPF neighborship to be in the EXSTART/EXCHANGE state?
A. mismatched OSPF link costs

B. mismatched OSPF network type
C. mismatched areas
D. mismatched MTU size
Answer: D
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/13684-12.html#neighbors

63.Which LISP device is responsible for publishing EID-to-RLOC mappings for a site?
A. ETR
B. MR
C. ITR
D. MS
Answer: A
Explanation:
Reference:
https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/locator-id-separation-protocol-lisp/white_paper_c11-652502.html

64.Which method does the enable secret password option use to encrypt device passwords?
A. MD5
B. PAP
C. CHAP
D. AES
Answer: A
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/security-vpn/remote-authentication-dial-user-service-radius/107614-64.html

65.Which statement about agent-based versus agentless configuration management tools is true?
A. Agentless tools use proxy nodes to interface with slave nodes.
B. Agentless tools require no messaging systems between master and slaves.
C. Agent-based tools do not require a high-level language interpreter such as Python or Ruby on slave nodes.
D. Agent-based tools do not require installation of additional software packages on the slave nodes.
Answer: B

66.Which statement about Cisco Express Forwarding is true?
A. The CPU of a router becomes directly involved with packet switching decisions.
B. It uses a fast cache that is maintained in a router data plane.
C. It maintains two tables in the data plane: the FIB and adjacency table.
D. It makes forwarding decisions by a process that is scheduled through the IOS scheduler.
Answer: C

67.Refer to the exhibit.

```
access-list 1 permit 10.1.1.0 0.0.0.31
ip nat pool CISCO 209.165.201.1. 209.165.201.30 netmask 255.255.255.224
ip nat inside source list 1 pool CISCO
```

What are two effects of this configuration? (Choose two.)

A. It establishes a one-to-one NAT translation.

B. The 209.165.201.0/27 subnet is assigned as the outside local address range.

C. The 10.1.1.0/27 subnet is assigned as the inside local addresses.

D. Inside source addresses are translated to the 209.165.201.0/27 subnet.

E. The 10.1.1.0/27 subnet is assigned as the inside global address range.

Answer: CD

68.When configuring WPA2 Enterprise on a WLAN, which additional security component configuration is required?

A. PKI server

B. NTP server

C. RADIUS server

D. TACACS server

Answer: C

Explanation:

Reference:
https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/100708-wpa-uwn-config.html#conf

69.What is the structure of a JSON web token?

A. three parts separated by dots: header, payload, and signature

B. three parts separated by dots: version, header, and signature

C. header and payload

D. payload and signature

Answer: A

Explanation:

Reference: https://auth0.com/docs/tokens/references/jwt-structure

70.A response code of 404 is received while using the REST API on Cisco DNA Center to POST to this URI: /dna/intent/api/v1/template-programmer/project

What does the code mean?

A. The POST/PUT request was fulfilled and a new resource was created. Information about the resource is in the response body.

B. The request was accepted for processing, but the processing was not completed.

C. The client made a request for a resource that does not exist.

D. The server has not implemented the functionality that is needed to fulfill the request.

Answer: C

Explanation:

Reference:
https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/application-policy-infrastructure-controller-enterprise-module/1-2-x/config-guide/b_apic-em_config_guide_v_1-2-x/b_apic-em_config_guide_v_12x_chapter_01001.html

71.What is a benefit of deploying an on-premises infrastructure versus a cloud infrastructure deployment?
A. ability to quickly increase compute power without the need to install additional hardware
B. less power and coding resources needed to run infrastructure on-premises
C. faster deployment times because additional infrastructure does not need to be purchased
D. lower latency between systems that are physically located near each other
Answer: D

72.A customer has several small branches and wants to deploy a Wi-Fi solution with local management using CAPWAP.
Which deployment model meets this requirement?
A. local mode
B. autonomous
C. SD-Access wireless
D. Mobility Express
Answer: A

73.Which two operations are valid for RESTCONF? (Choose two.)
A. PULL
B. PUSH
C. PATCH
D. REMOVE
E. ADD
F. HEAD
Answer: CF
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/b_166_programmability_cg_chapter_01011.html

74.Refer to the exhibit.


Clients > Detail

< Back | Apply | Link Test | Remove

Client Properties		AP Properties	
MAC Address	00:09:ef:95:07:bd	AP Address	3c:ce:73:1b:33:39
IP Address	192.100.101.100	AP Name	172.22.253.20
Client Type	Regular	AP Type	Mobile
User Name		WLAN Profile	Staff
Port Number	29	Status	Associated
Interface	Staff	Association ID	0
VLAN ID	1602	802.11 Authentication	Open System
CCX Version	Not Supported	Reason Code	1
E2E Version	Not Supported	Status Code	0
Mobility Role	Anchor	CF Pollable	Not Implemented
Mobility Peer IP Address	172.22.253.20.	CF Poll Request	Not Implemented
Policy Manager State	LUN	Short Preamble	Implemented
Management Frame Protection	No	PBCC	Not Implemented
UpTime (Sec)	3710	Channel Agility	Not Implemented
Power Save Mode	OFF	Timeout	0
Current TxRateSet		WEP State	WEP Enable
Data RateSet	5.5,11.0,6.6,9.0,12.0,19.0,24.0,26.6,40.0,51.6		

The WLC administrator sees that the controller to which a roaming client associates has Mobility Role Anchor configured under Clients > Detail.
Which type of roaming is supported?
A. indirect
B. Layer 3 intercontroller
C. intracontroller
D. Layer 2 intercontroller
Answer: D

75.In which part of the HTTP message is the content type specified?
A. HTTP method
B. body
C. header
D. URI
Answer: C
Explanation:
Reference: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Type

76.Which statement about VXLAN is true?

A. VXLAN encapsulates a Layer 2 frame in an IP-UDP header, which allows Layer 2 adjacency across router boundaries.
B. VXLAN uses the Spanning Tree Protocol for loop prevention.
C. VXLAN extends the Layer 2 Segment ID field to 24-bits, which allows up to 4094 unique Layer 2 segments over the same network.
D. VXLAN uses TCP as the transport protocol over the physical data center network.
Answer: A

77.DRAG DROP
Drag and drop the characteristics from the left onto the correct infrastructure deployment types on the right.

Answer Area

customizable hardware, purpose-built systems	On Premises
easy to scale and upgrade	
more suitable for companies with specific regulatory or security requirements	
resources can be over or underutilized as requirements vary	Cloud
requires a strong and stable internet connection	
built-in, automated data backups and recovery	

Answer:

Answer Area

customizable hardware, purpose-built systems	On Premises
easy to scale and upgrade	customizable hardware, purpose-built systems
more suitable for companies with specific regulatory or security requirements	more suitable for companies with specific regulatory or security requirements
resources can be over or underutilized as requirements vary	resources can be over or underutilized as requirements vary
requires a strong and stable internet connection	Cloud
built-in, automated data backups and recovery	easy to scale and upgrade
	requires a strong and stable internet connection
	built-in, automated data backups and recovery

78.Which statement about Cisco EAP-FAST is true?
A. It requires a client certificate.
B. It is an IETF standard.
C. It does not require a RADIUS server certificate.
D. It operates in transparent mode.
Answer: C
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/99791-eapfast-wlc-rad-config.html

79.What do Cisco DNA southbound APIs provide?
A. interface between the controller and the consumer
B. RESTful API interface for orchestrator communication
C. interface between the controller and the network devices
D. NETCONF API interface for orchestrator communication
Answer: C

80.Which DNS lookup does an access point perform when attempting CAPWAP discovery?
A. CISCO-CONTROLLER.local
B. CAPWAP-CONTROLLER.local
C. CISCO-CAPWAP-CONTROLLER.local
D. CISCO-DNA-CONTROLLER.local
Answer: C

Explanation:
Reference:
http://www.revolutionwifi.net/revolutionwifi/2010/11/capwap-controller-discovery-process_23.html

81.Which TCP setting is tuned to minimize the risk of fragmentation on a GRE/IP tunnel?
A. MSS
B. MTU
C. MRU
D. window size
Answer: A

82.DRAG DROP
Drag and drop the characteristics from the left onto the correct routing protocol types on the right.

Answer Area

supports unequal path load balancing	OSPF
link state routing protocol	
distance vector routing protocol	
metric based on delay and reliability by default	EIGRP
makes it easy to segment the network logically	
constructs three tables as part of its operation: neighbor table, topology table, and routing table	

Answer:

Answer Area

supports unequal path load balancing	OSPF
link state routing protocol	link state routing protocol
distance vector routing protocol	makes it easy to segment the network logically
metric based on delay and reliability by default	constructs three tables as part of its operation: neighbor table, topology table, and routing table
makes it easy to segment the network logically	EIGRP
constructs three tables as part of its operation: neighbor table, topology table, and routing table	supports unequal path load balancing
	distance vector routing protocol
	metric based on delay and reliability by default

83.Which statement about an RSPAN session configuration is true?
A. Only one session can be configured at a time.
B. A special VLAN type must be used as the RSPAN destination.
C. A filter must be configured for RSPAN sessions.
D. Only incoming traffic can be monitored.
Answer: B

84.Refer to the exhibit.

```
Extended IP access list EGRESS
10 permit ip 10.1.100.0  0.0.0.255 10.1.2.0 0.0.0.255
20 deny ip any any
```

An engineer must modify the access control list EGRESS to allow all IP traffic from subnet 10.1.10.0/24 to 10.1.2.0/24. The access control list is applied in the outbound direction on router interface GigabitEthernet 0/1.
Which configuration commands can the engineer use to allow this traffic without disrupting existing traffic flows?
A)

```
config t
   ip access-list extended EGRESS
   permit ip 10.1.10.0 255.255.255.0 10.1.2.0 255.255.255.0
```

B)

```
config t
   ip access-list extended EGRESS2
    permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
    permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255
    deny ip any any
    !
    interface g0/1
     no ip access-group EGRESS out
     ip access-group EGRESS2 out
```

C)

```
config t
   ip access-list extended EGRESS
   permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
```

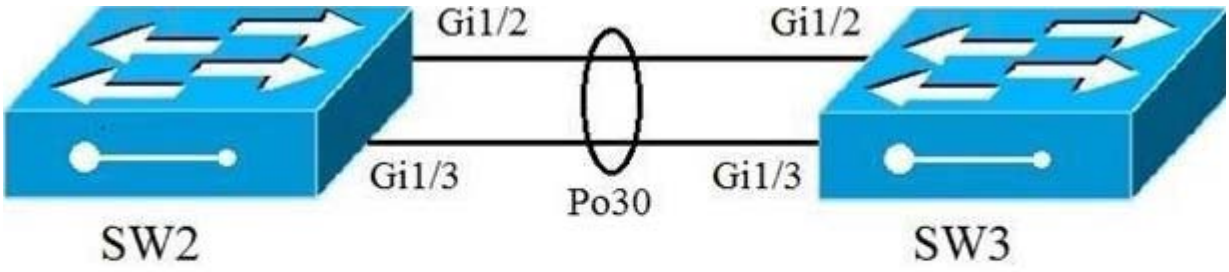
D)

```
config t
   ip access-list extended EGRESS
   5 permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255
```

A. Option A
B. Option B
C. Option C
D. Option D
Answer: D

85.What is the role of a fusion router in an SD-Access solution?
A. acts as a DNS server
B. provides additional forwarding capacity to the fabric
C. performs route leaking between user-defined virtual networks and shared services
D. provides connectivity to external networks
Answer: C
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/cloud-systems-management/dna-center/213525-sda-steps-to-configure-fusion-router.html#anc1

86.Refer to the exhibit.




```
Interface gi1/2
Channel-group 30 mode desirable
Port-channel load-balance src-ip

Interface gi1/3
Channel-group 30 mode desirable
Port-channel load-balance src-ip

Interface PortChannel 30
Switchport mode trunk
Switchport encapsulation dotlq
Switchport trunk allowed vlan 10-100
```

A port channel is configured between SW2 and SW3. SW2 is not running a Cisco operating system. When all physical connections are made, the port channel does not establish.
Based on the configuration except of SW3, what is the cause of the problem?
A. The port-channel mode should be set to auto.
B. The port channel on SW2 is using an incompatible protocol.
C. The port-channel trunk is not allowing the native VLAN.
D. The port-channel interface load balance should be set to src-mac.
Answer: B

87.What does this EEM applet event accomplish?
"event snmp oid 1.3.6.1.3.7.0.9.5.3.1.2.9 get-type next entry-op gt entry-val 75 poll-interval 5"
A. Upon the value reaching 75%, a SNMP event is generated and sent to the trap server.
B. It reads an SNMP variable, and when the value exceeds 75%, it triggers an action.
C. It issues email when the value is greater than 75% for five polling cycles.
D. It presents a SNMP variable that can be interrogated.
Answer: B

88.Which method displays text directly into the active console with a synchronous EEM applet policy?
A. event manager applet boom event syslog pattern ‘UP’ action 1.0 syslog priority direct msg ‘logging directly to console’
B. event manager applet boom event syslog pattern ‘UP’ action 1.0 gets ‘logging directly to console’
C. event manager applet boom event syslog pattern ‘UP’ action 1.0 string ‘logging directly to console’
D. event manager applet boom event syslog pattern ‘UP’ action 1.0 puts ‘logging directly to console’

Answer: B
Explanation:
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/eem/configuration/xe-3s/eem-xe-3s-book/eem-policy-cli.html

89.Which two GRE features are configured to prevent fragmentation? (Choose two.)
A. TCP window size
B. IP MTU
C. TCP MSS
D. DF bit clear
E. MTU ignore
Answer: BC
Explanation:
Reference:
https://www.cisco.com/c/en/us/support/docs/ip/generic-routing-encapsulation-gre/25885-pmtud-ipfrag.html

90.Which action is the vSmart controller responsible for in an SDWAN deployment?
A. onboard vEdge nodes into the SD-WAN fabric
B. gather telemetry data from vEdge routers
C. distribute security information for tunnel establishment between vEdge routers
D. manage, maintain, and gather configuration and status for nodes within the SD-WAN fabric
Answer: C

91.Which description of an SD-access wireless network infrastructure deployment is true?
A. The access point is part of the fabric overlay.
B. The wireless client is part of the fabric overlay.
C. The access point is part of the fabric underlay.
D. The WLC is part of the fabric underlay.
Answer: A

92.Which feature is supported by EIGRP but is not supported by OSPF?
A. route filtering
B. unequal-cost load balancing
C. route summarization
D. equal-cost load balancing
Answer: B

93.What is the correct EBGP path attribute list, ordered from most preferred to least preferred, that the BGP best-path algorithm uses?
A. local preference, weight, AS path, MED
B. weight, local preference, AS path, MED
C. weight, AS path, local preference, MED

D. local preference, weight, MED, AS path
Answer: B

94.At which layer does Cisco DNA Center support REST controls?
A. session layer
B. northbound APIs
C. EEM applets or scripts
D. YAML output from responses to API calls
Answer: B

95.On which protocol or technology is the fabric data plane based in Cisco SD-Access fabric?
A. VXLAN
B. LISP
C. Cisco TrustSec
D. IS-IS
Answer: A

96.What is the difference between the enable password and the enable secret password when service password encryption is enabled on an IOS device?
A. The enable secret password is protected via stronger cryptography mechanisms.
B. The enable password cannot be decrypted.
C. The enable password is encrypted with a stronger encryption method.
D. There is no difference and both passwords are encrypted identically.
Answer: A

97.Which access control list allows only TCP traffic with a destination port range of 22-443, excluding port 80?
A. deny tcp any any eq 80permit tcp any any gt 21 lt 444
B. permit tcp any any range 22 443deny tcp any any eq 80
C. permit tcp any any ne 80
D. deny tcp any any ne 80 permit tcp any any range 22 443
Answer: A

98.Which statement describes the IP and MAC allocation requirements for virtual machines on Type 1 hypervisors?
A. Virtual machines do not require a unique IP or unique MAC. They share the IP and MAC address of the physical server.
B. Each virtual machine requires a unique IP address but shares the MAC address with the physical server.
C. Each virtual machine requires a unique IP and MAC addresses to be able to reach to other nodes.
D. Each virtual machine requires a unique MAC address but shares the IP address with the physical server.
Answer: C

99.A local router shows an EBGP neighbor in the Active state.
Which statement is true about the local router?
A. The local router is attempting to open a TCP session with the neighboring router.
B. The local router is receiving prefixes from the neighboring router and adding them in RIB-IN.
C. The local router has active prefixes in the forwarding table from the neighboring router.
D. The local router has BGP passive mode configured for the neighboring router.
Answer: A

100.Which feature must be configured to allow packet capture over Layer 3 infrastructure?
A. RSPAN
B. ERSPAN
C. VSPAN
D. IPSPAN
Answer: B
Explanation:
Reference:
https://community.cisco.com/t5/networking-documents/understanding-span-rspan-and-erspan/ta-p/3144951