

思科认证互联网专家CCIE考试(习题卷3)

说明：答案和解析在试卷最后

第1部分：单项选择题，共222题，每题只有一个正确答案，多选或少选均不得分。

1. [单选题]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 80
 - C) 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
2. [单选题]What is calculated using the numerical values of the transmitter power level, cable loss and antenna gain?

 - A) SNR
 - B) RSSI
 - C) dBi
 - D) EIRP
3. [单选题]In software defined architectures, which plane is distributed and responsible for traffic forwarding?

 - A) management plane
 - B) control plane
 - C) policy plane
 - D) data plane
4. [单选题]For which feature is the address family "rtfilter" used?

 - A) ENHANCED ROUTE REFRESH
 - B) MPLS VPN FILTERING
 - C) ROUTE TARGET CONSTRAINT
 - D) UNIFIED MPLS
5. [单选题]How can an engineer prevent basic replay attacks from people who try to brute force a system via REST API?

 - A) Add a timestamp to the request in the API header.
 - B) Use a password hash
 - C) Add OAuth to the request in the API header.
 - D) Use HTTPS
6. [单选题]Which option describes the characteristics of a public Infrastructure as a Service cloud service model?

- A) It is a way of delivering cloud-computing infrastructure (servers, storage, network, and operating systems) as an on-demand service.
- B) It is a cloud-computing platform that facilitates the creation of web applications without the need to maintain the supporting software applications.
- C) It is a cloud service where the underlying hardware is managed by the cloud service provider.
- D) It is a cloud-computing platform that facilitates the creation of web applications without the need to maintain the supporting software operating systems.

7. [单选题] When is an external antenna used inside a building?

- A) Only when using 5 GHz
- B) Only when using 2.4 GHz
- C) Only when using Mobility Express
- D) When it provides the required coverage.

8. [单选题] What is YANG used for?

- A) scraping data via CLI
- B) providing a transport for network configuration data between client and server
- C) processing SNMP read-only polls
- D) describing data models

9. [单选题]

```
<errors xmlns="urn:ietf:params:xml:ns:yang:ietf-restconf">
  <error>
    <error-message>End-of-file reached in XML
stream</error-message>
    <error-path>/ietf-interfaces:interfaces/interface=Gigabi
tEthernet2</error-path>
    <error-tag>malformed-message</error-tag>
    <error-type>application</error-type>
  </error>
</errors>
```

Refer to the exhibit. An engineer is using XML in an application to send information to a RESTCONF-enabled device. After sending the request, the engineer gets this Response message and a HTTP response code of 400. What do these responses tell the engineer?

- A) The Accept header sent was application/xml
- B) POST was used instead of PUT to update
- C) The Content-Type header sent was application/xml
- D) A JSON body was used

10. [单选题] When the active router in an HSRP group fails, what router assumes the role and forwards packets?

- A) forwarding
- B) backup
- C) standby
- D) listening

11. [单选题]Where does a switch maintain DHCP snooping information ?

- A) in the MAC address table
- B) in the CAM table
- C) in the DHCP binding database
- D) in the VLAN database

12. [单选题]Which mechanism does get vpn use to preserve ip header information?

- A) GRE
- B) MPLS
- C) IPSEC TRANSPORT MODE
- D) IPSEC TUNNEL MODE

13. [单选题]Which task must you perform to enable an IOS device to use DNS services?

- A) configure a relay agent information reforwarding policy
- B) configure manual bindings
- C) configure the relay agent information option
- D) configure a name server

14. [单选题]What does reverse path forwarding ensure in a multicast network?

- A) IT ENSURES THAT ANY MULTICAST HOST CAN RECEIVE THE MULTICAST STREAM.
- B) IT ENSURES THAT THE SOURCE OF THE MULTICAST CAN FORWARD THE MULTICAST STREAM.
- C) IT ENSURES A LOOP-FREE MULTICAST NETWORK.
- D) IT ENSURES THAT MULTICAST HOSTS CAN JOIN THE INTENDED MULTICAST GROUPS.

15. [单选题]Which circumstance is a common cause of late collisions?

- A) native VLAN mismatch
- B) overloaded hardware queues
- C) duplex mismatch
- D) software misconfiguration

16. [单选题]On which port type would you configure STP PortFast BPDU guard?

- A) ROOT PORTS
- B) DESIGNATED PORTS
- C) HOST PORTS
- D) ALTERNATE PORTS

17. [单选题]While troubleshooting a GRE tunnel interface issue, show interface command output displays tunnel status up, but line protocol is down. Which reason for this problem is most likely ?

- A) The route to the tunnel destination address is through the tunnel itself
- B) The next hop server is misconfigured
- C) The interface has been administratively shut down
- D) The tunnel was just reset

18. [单选题]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

19. [单选题] In a Cisco SD-Access solution, which protocol is used by an extended node to connect to a Single edge node?

- A) IS-IS
- B) 802.1Q
- C) VXLAN
- D) CTS

20. [单选题] assuming the default switch configuration which vlan range can be added modified and removed on acisco switch?

- A) 2 through 1001
- B) 1 through 1001
- C) 1 through 1002
- D) 2 through 1005

21. [单选题] A host on an Ethernet segment has a different subnet mask than the default gateway. What can be done to allow it to communicate with devices outside of this subnet?

- A) CONFIGURE A STATIC ROUTE FOR THE HOST ON THE DEFAULT GATEWAY.
- B) CONFIGURE A STATIC ARP ENTRY ON THE DEFAULT GATEWAY FOR THE HOST IP ADDRESS.
- C) ENABLE GRATUITOUS ARP ON THE HOST.
- D) ENABLE PROXY ARP ON THE DEFAULT GATEWAY.

22. [单选题] What does this EEM applet event accomplish?

```
“event snmp oid 1.3.6.1.3.7.1.5.1.2.4.2.9 get-type next entry-op ge entry-val 75 poll-interval 5”
```

- A) It issues email when the value is greater than 75% for five polling cycles
- B) It reads an SNMP variable, and when the value exceeds 75%, it triggers an action
- C) It presents a SNMP variable that can be interrogated
- D) Upon the value reaching 75%, a SNMP event is generated and sent to the trap server

23. [单选题] Which TCP feature allows a client to request a specific packet that was lost?

- A) FLOW CONTROL
- B) SLIDING WINDOW
- C) FAST RECOVERY
- D) SELECTIVE ACKNOWLEDGMENT

24. [单选题] which LSA type is associated with the default route in a totally stubby area?

- A) INTERAREA-PREFIX LSA FOR ABRS (TYPE 3)
- B) AUTONOMOUS SYSTEM EXTERNAL LSA (TYPE 5)
- C) ROUTER LSA (TYPE 1)
- D) INTERAREA-ROUTER LSAS FOR ASBRS (TYPE 4)

25. [单选题] Which architectural component enables a zero-trust security model?

- A) control plane
- B) data plane
- C) management plane
- D) plug-and-play

26. [单选题] refer to the exhibit. Which statement is true?

- A) THE OUTPUT SHOWS AN IPV6 MULTICAST ADDRESS WITH LINK-LOCAL SCOPE.
- B) THE OUTPUT SHOWS AN IPV6 MULTICAST ADDRESS THAT IS USED FOR UNIQUE LOCAL SOURCES ONLY.
- C) THE OUTPUT SHOWS AN IPV6 MULTICAST ADDRESS THAT CAN BE USED FOR BIDIR-PIM ONLY.
- D) THE OUTPUT SHOWS AIL IPV6 MULTICAST ADDRESS WITH EMBEDDED RP.

27. [单选题] Which technology uses network traffic telemetry, contextual information, and file reputation to provide insight into cyber threats?

- A) threat defense
- B) security services
- C) security intelligence
- D) segmentation

28. [单选题] What uses HTTP messages to transfer data to applications residing (驻留) on different hosts?

- A) OpenFlow
- B) OpenStack
- C) OpFlex
- D) REST

29. [单选题] How do TCP and UDP differ in the way they provide reliability for delivery of packets?

- A) TCP does not guarantee delivery or error checking to ensure that there is no corruption of data; UDP provides message acknowledgement and retransmits Data if lost.
- B) TCP provides flow control to avoid overwhelming a receiver by sending too many packets at once; UDP sends packets to the receiver in a continuous stream Without checking for sequencing.
- C) TCP uses windowing to deliver packets reliably; UDP provides reliable message transfer between hosts by establishing a three-way handshake
- D) TCP is a connectionless protocol that does not provide reliable delivery of data; UDP is a connection-oriented protocol that uses sequencing to provide reliable Delivery.

30. [单选题] How is MSDP used to interconnect multiple PIM-SM domains?

- A) MSDP depends on BGP or multiprotocol BGP for interdomain operation
- B) MSDP messages are used to advertise active sources in a domain
- C) MSDP SA request messages are used to request a list of active sources for a specific group
- D) MSDP allows a rendezvous point to dynamically discover active sources outside of its domain

31. [单选题] which technology can be used to secure the edge of an STP domain?

- A) ROOT GUARD
- B) BPDU GUARD
- C) UPLINKFAST
- D) BPDU FILTER

32. [单选题] When a wired client connects to an edge switch in an SDA fabric, which component decides whether the client has access to the network?

- A) control-plane node
- B) Identity Service Engine
- C) RADIUS server
- D) edge node

33. [单选题] which ipv6 migration method relies on dynamic tunnels that use the 2002::/16 reserved address

space?

- A) 6RD
- B) 6T04
- C) ISATAP
- D) GRE

34. [单选题] Question 38

What is one difference between Saltstack and Ansible?

- A) SaltStack uses an API proxy agent to program Cisco boxes on agent mode, whereas Ansible uses a Telnet connection
- B) SaltStack uses the Ansible agent on the box, whereas Ansible uses a Telnet server on the box
- C) SaltStack is constructed with minion, whereas Ansible is constructed with YAML
- D) SaltStack uses SSH to interact with Cisco devices, whereas Ansible uses an event bus

35. [单选题] 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

36. [单选题] Which Cisco FlexConnect state allows wireless users that are connected to the network to Continue working after the connection to the WLC has been lost?

- A) Authentication Down/Switching Down
- B) Authentication-Central/Switch-Local
- C) Authentication-Down/Switch-Local
- D) Authentication-Central/Switch-Central

37. [单选题] refer to the exhibit, which statement is true?

- A) BFD, SPF AND LSA TIMERS ARE TUNED FOR FASTER CONVERGENCE
- B) FAST CONVERGENCE IS NOT CONFIGURED
- C) BFD AND SPF THROTTLING ARE CONFIGURED
- D) ONLY BFD IS ENABLED

38. [单选题] An engineer must configure an ACL that permits packets which include an ACK in the TCP header. Which entry must be included in the ACL?

- A) access-list 110 permit tcp any any eq 21 established
- B) access-list 110 permit tcp any any eq 21 tcp-ack
- C) access-list 10 permit tcp any any eq 21 established
- D) access-list 10 permit ip any any eq 21 tcp-ack

39. [单选题] which is the requirement for BFD static route support?

- A) CEF MUST BE CONFIGURED ON ALL ROUTERS THAT WILL CARRY TRAFFIC.
- B) BFD MUST BE CONFIGURED ON ALL ETHERNET, VIRTUAL-TEMPLATE, AND DIALER INTERFACES THAT WILL CARRY TRAFFIC.
- C) ALL ROUTERS THAT WILL CARRY TRAFFIC MUST HAVE THE SAME SOFTWARE VERSION.
- D) ALL ROUTERS THAT WILL CARRY TRAFFIC MUST BE THE SAME MODEL.

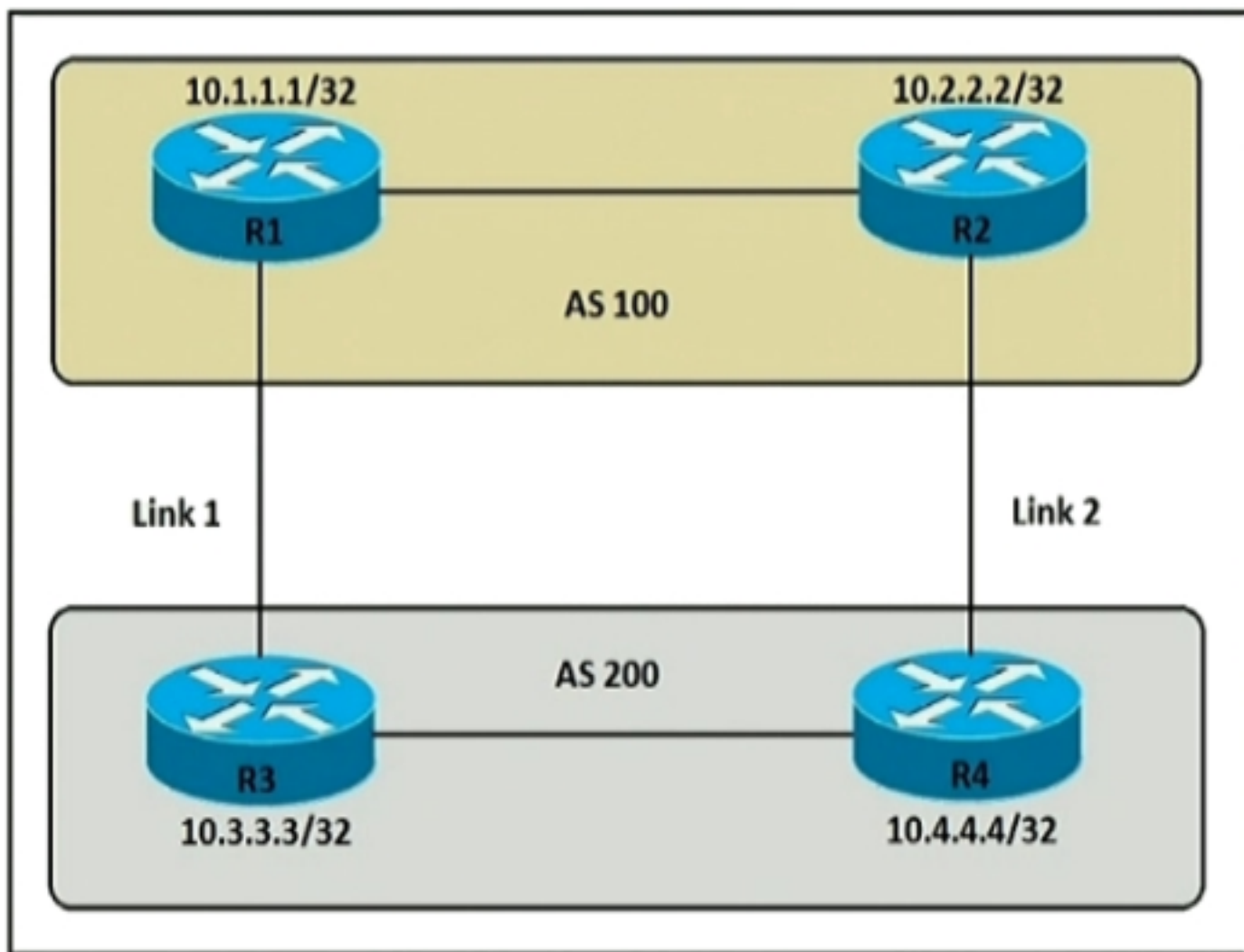
40. [单选题] When using TLS for syslog, which configuration allows for secure and reliable transportation of messages to its default port?

- A) logging host 10.2.3.4 vrf mgmt transport tcp port 6514
- B) logging host 10.2.3.4 vrf mgmt transport udp port 6514

C) logging host 10.2.3.4 vrf mgmt transport tcp port 514

D) logging host 10.2.3.4 vrf mgmt transport udp port 514

41. [单选题]



Refer to the exhibit. An engineer must ensure that all traffic entering AS 200 from AS 100 chooses Link 2 as an entry point. Assume that all BGP neighbor Relationships have been formed and that the attributes have not been changed on any of the routers. Which configuration accomplishes This task?

- A) R4(config)#route-map PREPEND permit 10
R4(config-route-map)#set as-path prepend 200 200 200
R4(config)#router bgp 200
R4(config-router)#neighbor 10.2.2.2 route-map PREPEND out
- B) R3(config)#route-map PREPEND permit 10
R3(config-route-map)#set as-path prepend 200 200 200
R3(config)#router bgp 200
R3(config-router)#neighbor 10.1.1.1 route-map PREPEND out
- C) R4(config)#route-map PREPEND permit 10
R4(config-route-map)#set as-path prepend 100 100 100
R4(config)#router bgp 200
R4(config-router)#neighbor 10.2.2.2 route-map PREPEND in
- D) R3(config)#route-map PREPEND permit 10
R3(config-route-map)#set as-path prepend 100 100 100
R3(config)#router bgp 200

R3(config-router)#neighbor 10.2.2.2 route-map PREPEND in

42. [单选题]How is Layer 3 roaming accomplished in a unified wireless deployment?

- A)An EoIP tunnel is created between the client and the anchor controller to provide seamless Connectivity as the client is associated with the new AP
- B)The client entry on the original controller is passed to the database on the new controller
- C)The new controller assigns an IP address from the new subnet to the client
- D)The client database on the original controller is updated the anchor entry, and the new Controller database is updated with the foreign entry.

43. [单选题]Router R1 Fa0/0 cannot ping router R3 Fa0/1. Which action must be taken in router R1 to help resolve the configuration issue?

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       I - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

 10.0.0.0/24 is subnetted, 1 subnets
 C    10.10.10.0 is directly connected, FastEthernet0/0
```

```
R2#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       I - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

 20.0.0.0/24 is subnetted, 1 subnets
 C    20.20.20.0 is directly connected, FastEthernet0/1
 10.0.0.0/24 is subnetted, 1 subnets
 C    10.10.10.0 is directly connected, FastEthernet0/0
```

```
R3#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       I - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

 20.0.0.0/24 is subnetted, 1 subnets
 C    20.20.20.0 is directly connected, FastEthernet0/1
 10.0.0.0/24 is subnetted, 1 subnets
 S    10.10.10.0 [1/0] via 20.20.20.1
```

class="fr-fic fr-dib cursor-hover"

- A)set the default network as 20.20.20.0/24
- B)set the default gateway as 20.20.20.2
- C)configure a static route with Fa0/1 as the egress interface to reach the 20.20.20.0/24 network
- D)configure a static route with 10.10.10.2 as the next hop to reach the 20.20.20.0/24 network

44. [单选题]Which unit is used to express the signal-to-noise ratio ?

- A)Mw

- B) Amp
- C) Db
- D) Dbm

45. [单选题] Which design principle should be followed in a Cisco SD-Access wireless network deployment?

- A) The WLC is connected outside of the fabric
- B) The WLC is part of the fabric underlay
- C) The access point is connected outside of the fabric.
- D) The WLC is part of the fabric overlay.

46. [单选题] On a network using DiffServ, which option refers to the actions that applied to a packet as it moves through the network?

- A) DSCP
- B) PHB
- C) Codepoint
- D) IP-precedence

47. [单选题] 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 default group tacacs+none
- B) R1#sh run | include aaa
Aaa new-model
Aaa authentication login default group tacacs+none
- C) 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#
- 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 0205d480809
R1#sh run | include username
R1#

48. [单选题] which keychain cryptographic algorithm is supported by the IS-IS routing protocol?

- A) HMAC-SHA1-12
- B) HMAC-MD5
- C) MD5
- D) HMAC-SHA1-20

49. [单选题] In an SD-WAN deployment, which action in the vSmart controller is responsible for?
- A) handle, maintain, and gather configuration and status for nodes within the SD-WAN fabric
 - B) onboard vEdge nodes into the SD-WAN fabric
 - C) gather telemetry data from vEdge routers
 - D) distribute policies that govern data forwarding performed within the SD-WAN fabric
50. [单选题] Which function is performed by the collapsed core layer in a two-tier architecture?
- A) Applying security policies
 - B) Attaching users to the edge of the network
 - C) Enforcing routing policies
 - D) Making interesting traffic conform to data policies
51. [单选题] Which technology does Cisco PfR use to collect passive monitoring statistics?
- A) NBAR
 - B) SNMP
 - C) SYSLOG
 - D) NETFLOW
52. [单选题] In which way does the bridge assurance mechanism modify the default spanning-tree behavior in an effort to prevent bridging loops?
- A) RECEIVED BPDUs ARE LOOPED BACK TOWARD THE SENDER TO ENSURE THAT THE LINK IS BIDIRECTIONAL.
 - B) IF BPDUs ARE NO LONGER RECEIVED ON A PORT, THE SWITCH IMMEDIATELY SENDS OUT A TCN BPDU.
 - C) EXTENDED TOPOLOGY INFORMATION IS ENCODED INTO ALL BPDUs.
 - D) BPDUs ARE SENT BIDIRECTIONAL ON ALL ACTIVE NETWORK PORTS, INCLUDING BLOCKED AND ALTERNATE PORTS.
53. [单选题] What is the minimum Ethernet frame size?
- A) 32 bytes
 - B) 64 bytes
 - C) 1024 bytes
 - D) 1500 bytes
54. [单选题] For which routes does the distance bgp 10 50 70 command set the administrative distance?
- A) for BGP internal routes only
 - B) for all BGP routes
 - C) for BGP external routes only
 - D) between BGP routes and IGP routes
55. [单选题] Which PAgP mode combination prevents an Etherchannel from forming?
- A) auto/auto
 - B) desirable/desirable
 - C) auto/desirable
 - D) desirable
56. [单选题] 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
57. [单选题] During deployment, a network engineer notices that voice traffic is not being tagged

correctly as it traverses the network. Which COS to DSCP map must be modified to ensure that voice traffic is treated properly?

- A) COS of 5 to DSCP 46
- B) COS of 7 to DSCP 48
- C) COS of 6 to DSCP 46
- D) COS of 3 to DSCP of 26

58. [单选题] 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 80
Permit tcp any any gt 21 lt 444
- B) permit tcp any any range 22 443 deny tcp any any eq 80
- C) permit tcp any any eq 80
- D) deny tcp any any eq 80
Permit tcp any any range 22 443

59. [单选题] Which MAC address is recognized as a VRRP virtual address?

- A) 0000.5E00.010a
- B) 0005.3711.0975
- C) 0000.0C07.AC99
- D) 0007.C070/AB01

60. [单选题] What causes a port to be placed in the err-disabled state?

- A) latency
- B) port security violation
- C) shutdown command issued on the port
- D) nothing plugged into the port

61. [单选题] Which routing protocol is used on PE routers to exchange VPNv4 routes?

- A) EIGRP
- B) MP-BGP
- C) OSPF
- D) OSPFV3

62. [单选题] A company plans to implement intent-based networking in its campus infrastructure. Which design facilitates a migrate from a traditional campus design to a programmer fabric designer?

- A) Layer 2 access
- B) three-tier
- C) two-tier
- D) routed access

63. [单选题] Which measure is used by an NTP server to indicate its closeness to the authoritative time source?

- A) stratum
- B) hop count
- C) time zone
- D) latency

64. [单选题] Which mechanism does get vpn use to preserve ip header information?

- A) GRE
- B) MPLS

- C) IPSEC TRANSPORT MODE
- D) IPSEC TUNNEL MODE

65. [单选题] In which way does the Bridge Assurance mechanism modify the default spanning-tree behavior in an effort to prevent bridging loops?

- A) RECEIVED BPDUS ARE LOOPEd BACK TOWARD THE SENDER TO ENSURE THAT THE LINK IS BIDIRECTIONAL.
- B) IF BPDUS ARE NO LONGER RECEIVED ON A PORT, THE SWITCH IMMEDIATELY SENDS OUT A TCN BPDU.
- C) EXTENDED TOPOLOGY INFORMATION IS ENCODED INTO ALL BPDUS.
- D) BPDUS ARE SENT BIDIRECTIONAL ON ALL ACTIVE NETWORK PORTS, INCLUDING BLOCKED AND ALTERNATE PORTS.

66. [单选题] A network engineer is enabling HTTPS access to the core switch, which requires a certificate to be installed on the switch signed by the corporate certificate authority. Which configuration commands are required to issue a certificate signing request from the core switch?

- A) Core-Switch(config)#crypto pki trustpoint Core-Switch
Core-Switch(ca-trustpoint)#enrollment terminal
Core-Switch(config)#crypto pki enroll Core-Switch
- B) Core-Switch(config)#crypto pki enroll Core-Switch
Core-Switch(config)#ip http secure-trustpoint Core-Switch
- C) Core-Switch(config)#ip http secure-trustpoint Core-Switch
Core-Switch(config)#crypto pki enroll Core-Switch
- D) Core-Switch(config)#crypto pki trustpoint Core-Switch
Core-Switch(ca-trustpoint)#enrollment terminal
Core-Switch(config)#ip http secure-trustpoint Core-Switch

67. [单选题] A router running EIGRP has learned the same route from two different paths. Which parameter does the router use to select the best path?

- A) cost
- B) administrative distance
- C) metric
- D) as-path

68. [单选题] Which LISP infrastructure device provides connectivity between non-LISP sites and LISP sites by receiving non-LISP traffic with a LISP site destination?

- A) PETR
- B) PITR
- C) map resolver
- D) map server

69. [单选题] Under which network conditions is an outbound QoS policy that is applied on a router WAN interface most beneficial?

- A) under all network conditions
- B) under network convergence conditions
- C) under interface saturation conditions
- D) under traffic classification and marking conditions

70. [单选题] How do AAA operations compare regarding user identification, user services and access control?

- A) Authorization provides access control and authentication tracks user services
- B) Authentication identifies users and accounting tracks user services
- C) Accounting tracks user services, and authentication provides access control

D)Authorization identifies users and authentication provides access control

71. [单选题] Shortly after SiteA was connected to SiteB over a new single-mode fiber path. users at SiteA report intermittent connectivity issues with applications hosted at SiteB .What is the cause of the intermittent connectivity issue?

```
SiteA#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02a.db91 (bia 780a.f02b.db91)
  Description: Connection to SiteB
  Internet address is 10.10.10.1/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
    reliability 166/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 264797000 bits/sec, 26672 packets/sec
  5 minute output rate 122464000 bits/sec, 15724 packets/sec

SiteB#show interface TenGigabitEthernet0/1/0
TenGigabitEthernet0/1/0 is up, line protocol is up
  Hardware is BUILT-IN-EPA-8x10G, address is 780c.f02c.db26 (bia 780c.f02c.db26)
  Description: Connection to SiteA
  Internet address is 10.10.10.2/30
  MTU 8146 bytes, BW 10000000 Kbit/sec, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Full Duplex, 10000Mbps, link type is force-up, media type is SFP-LR
  5 minute input rate 122464000 bits/sec, 15724 packets/sec
  5 minute output rate 264797000 bits/sec, 26672 packets/sec
```

class="fr-fic fr-dib cursor-hover"

- A)Interface errors are incrementing
- B)An incorrect SFP media type was used at SiteA
- C)High usage is causing high latency
- D)The sites were connected with the wrong cable type

72. [单选题]

Refer to the exhibit.An engineer configures CoPP and enters the show command to verify the implementation.what is the result of the configuration?

- A)ICMP will be denied based on this configuration
- B)If traffic exceeds the specified rate,it will be transmitted and remarked
- C)Class-default traffic will be dropped
- D)All traffic will be policed on access-list 120

73. [单选题]HOW DOES CISCO EXPRESS FORWARDING SWITCHING DIFFER FROM PROCESS SWITCHING ON CISCO DEVICES

- A)Cisco express forwarding switching uses adjacency tables built by the CDP protocol, and process switching uses the routing table.
- B)Cisco express forwarding switching uses a proprietary protocol based on IS-IS for MAC address lookup, and process switching uses the MAC address table.
- C)Cisco express forwarding switching uses dedicated hardware processors, and process switching uses the

```
Router2# show policy-map control-plane

Control Plane
Service-policy input:CISCO
Class-map:CISCO (match-all)
  20 packets, 11280 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match:access-group 120
  police:
    8000 bps, 1500 limit, 1500 extended limit
    conformed 15 packets, 6210 bytes; action:transmit
    exceeded 5 packets, 5070 bytes; action:drop
    violated 0 packets, 0 bytes; action:drop
    conformed 0 bps, exceed 0 bps, violate 0 bps
Class-map:class-default (match-any)
  105325 packets, 11415151 bytes
  5 minute offered rate 0 bps, drop rate 0 bps
  Match:any
```

main processor.

D)Cisco express forwarding switching saves memory by storing adjacency tables in dedicated memory on the line cards, and process switching stores all tables in the main memory.

74. [单选题]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

75. [单选题]A customer transitions a wired environment to a Cisco SD-Access solution. The customer Does not want to integrate the wireless network with the fabric. Which wireless deployment Approach enables the two systems to coexist and meets the customer requirement?

- A)Deploy a separate network for the wireless environment.
- B)Implement a Cisco DNA Center to manage the two networks.
- C)Deploy the wireless network over the top of the fabric.
- D)Deploy the APs in autonomous mode.

76. [单选题]When a wireless client roams between two different wireless controllers, a network connectivity outage is experience for a period of time. Which configuration issue would cause this problem?

- A)All of the controllers within the mobility group are using the same virtual interface IP address
- B)All of the controllers in the mobility group are using the same mobility group name
- C)Not all of the controllers in the mobility group are using the same mobility group name

D)Not all of the controllers within the mobility group are using the same virtual interface IP address

77. [单选题]In a fabric-enabled wireless network, which device is responsible for maintaining the endpoint ID database?

- A)Fabric border node
- B)Fabric edge node
- C)Fabric wireless controller
- D)Control plane node

78. [单选题]A video-on-demand server. Which action must the engineer perform to configure extended discovery to

Support the MPLS LDP session between the headend and tailend routers?

- A)Configure the interface bandwidth to handle TCP and UDP traffic between the LDP peers
- B)Configure a Cisco MPLS TE tunnel on both ends of the session
- C)Configure an access list on the interface to permit TCP and UDP traffic
- D)Configure a targeted neighbor session.

79. [单选题]After a redundant route processor failure occurs on a Layer 3 device, which mechanism allows for packets to be forwarded from a neighboring router based on the most recent tables?

- A)RPVST+
- B)RP failover
- C)BFD
- D)NSF

80. [单选题]Router R1 has a static route that is configured to destination network. A directly connected interface is configured with an IP address in the same destination network. Which statement about R1 is true?

- A)R1 refuses to advertise the dynamic route to other neighbors
- B)R1 prefers the static route
- C)R1 prefers the directly connected interface
- D)R1 sends a withdrawal notification to the neighboring router

81. [单选题]which prefix list matches and permits all RFC 1918 network 10.0.0.0 routes that have masks of /16 through /24?

- A)IP PREFIX-LIST FOO SEQ 10 PERMIT 10.0.0.0/16 LE24
- B)IP PREFIX-LIST FOO SEQ 10 PERMIT 10.0.0.0/8 GE 15 LE 25
- C)IP PREFIX-LIST FOO SEQ 10 PERMIT 10.0.0.0/16 GE 15 LE 25
- D)IP PREFIX-LIST FOO SEQ 10 PERMIT 10.0.0.0/8 GC 16 LE 24

82. [单选题]If the noise floor is -90 dBm and the wireless client is receiving a signal of -75 dBm, what is the SNR?

- A)15
- B)1.2
- C)-165
- D)83

83. [单选题]which option describes the characteristics of a public infrastructure as a service cloud service model?

- A)IT IS A WAY OF DELIVERING CLOUD-COMPUTING INFRASTRUCTURE (SERVERS, STORAGE, NETWORK, AND OPERATING SYSTEMS) AS AN ON-DEMAND SERVICE.
- B)IT IS A CLOUD-COMPUTING PLATFORM THAT FACILITATES THE CREATION OF WEB APPLICATIONS WITHOUT THE NEED TO

MAINTAIN THE SUPPORTING SOFTWARE APPLICATIONS.

C) IT IS A CLOUD SERVICE WHERE THE UNDERLYING HARDWARE IS MANAGED BY THE CLOUD SERVICE PROVIDER.

D) IT IS A CLOUD-COMPUTING PLATFORM THAT FACILITATES THE CREATION OF WEB APPLICATIONS WITHOUT THE NEED TO MAINTAIN THE SUPPORTING SOFTWARE OPERATING SYSTEMS.

84. [单选题] Which mode allows access points to be managed by Cisco Wireless LAN Controllers?

A) autonomous

B) lightweight

C) Bridge

D) mobility express

85. [单选题] A packet is destined for 10.10.1.22. Which static route does the router choose to forward the packet?

A) ip route 10.10.1.0 255.255.255.240 10.10.255.1

B) ip route 10.10.1.16 255.255.255.252 10.10.255.1

C) ip route 10.10.1.20 255.255.255.252 10.10.255.1

D) ip route 10.10.1.20 255.255.255.254 10.10.255.1

86. [单选题] AN engineer is implementing a route map to support redistribution within BGP. The route map must

be configured to permit all unmatched routes. Which action must the engineer perform to complete this task?

A) Include a permit statement as the first entry

B) Include at least one explicit deny statement

C) Remove the implicit deny entry

D) Include a permit statement as the last entry

87. [单选题] A wireless consultant is designing a high-density wireless network for a lecture hall for 1000 students. Which antenna type is recommended for this environment?

A) sector antenna

B) dipole antenna

C) parabolic dish

D) omnidirectional antenna

88. [单选题] How do stratum levels relate to the distance from a time source?

A) Stratum 0 devices are connected directly to an authoritative time source

B) Stratum 1 devices are connected directly to an authoritative time source

C) Stratum 15 devices are connected directly to an authoritative time source

D) Stratum 15 devices are an authoritative time source

89. [单选题] Wireless users report frequent disconnections from the wireless network. While troubleshooting a network engineer finds that after the user disconnects, the connection reestablishes automatically without any input required. The engineer also notices these message logs.

Which action reduces the user impact?

A) increase the dynamic channel assignment interval

B) increase BandSelect

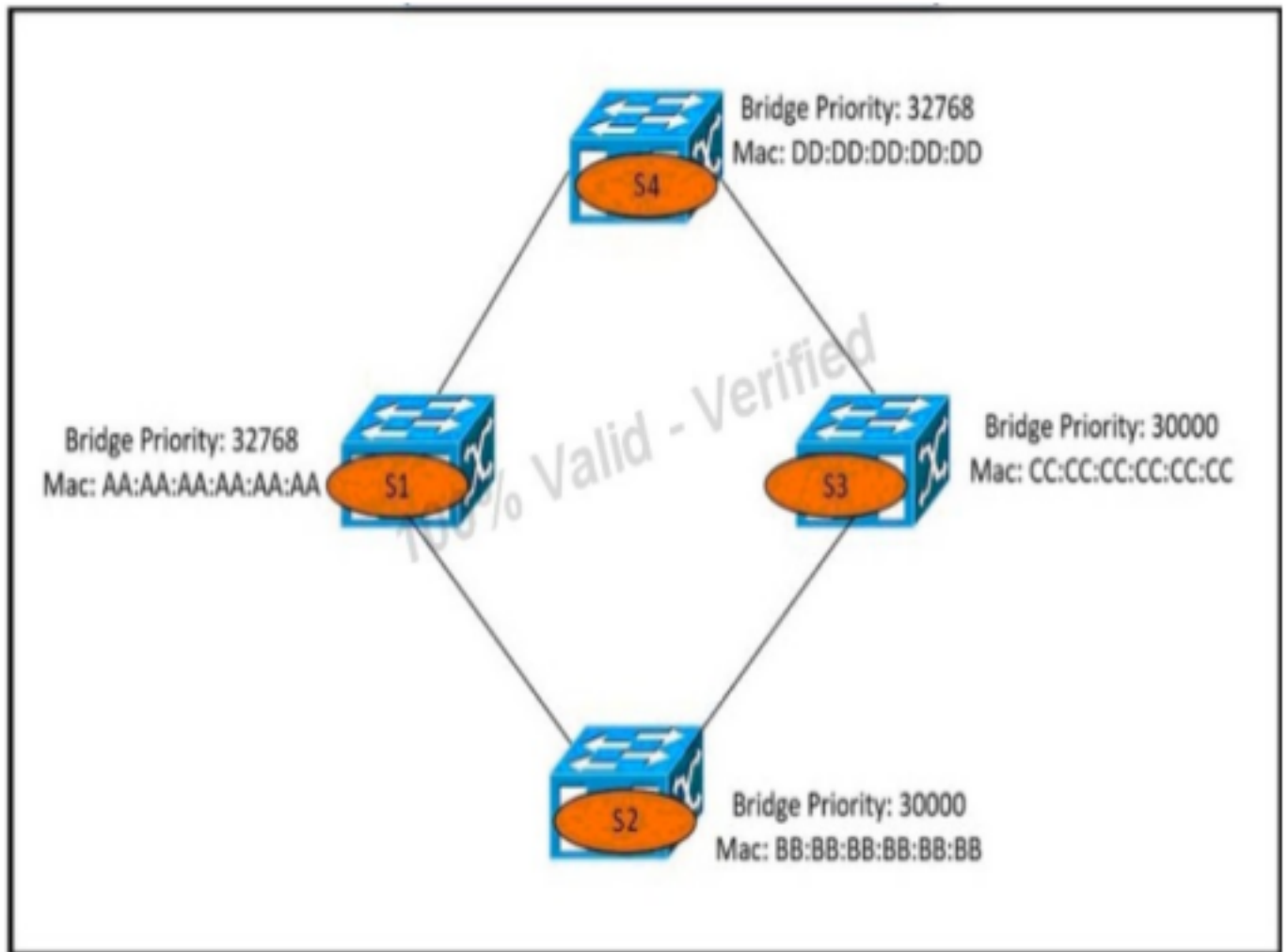
C) increase the AP heartbeat timeout

D) enable coverage hole detection

90. [单选题] Which switch becomes the root bridge?

class="fr-fic fr-dib cursor-hover"

A) S1



- B) S2
C) S3
D) S4
91. [单选题] How is 802.11 traffic handled in a fabric-enabled SSID?
A) Centrally switched back to WLC where the user traffic is mapped to a VLAN on the WLC
B) Converted the AP into 802.3 and encapsulated into VXLAN
C) Converted the AP into 802.3 and encapsulated into a VLAN
D) Centrally switched back to WLC where the user traffic is mapped to VXLAN on the WLC
92. [单选题] Which IP SLA operation type uses IP to measure the round-trip time between a router and a device?
A) HTTP
B) ICMP ECHO
C) ICMP PATH JITTER
D) UDP JITTER FOR VOIP
93. [单选题] Which DHCP message type does the DHCP server send to client to confirm its allocated IP address?
A) DHCPDISCOVER
B) DHCPOFFER
C) DHCPREQUEST
D) DHCPACK

94. [单选题] For what reason might you choose to use an SVTI interface instead of a crypto map on a tunnel interface?

- A) SVTIS SUPPORT DYNAMIC ROUTING PROTOCOLS WITHOUT GRE HEADERS.
- B) SVTIS CAN SUPPORT MULTIPLE IPSEC SAS.
- C) SVTIS CAN CARRY NON-IP TRAFFIC.
- D) SVTIS SUPPORT CEF-SWITCHED TRAFFIC SHAPING.

95. [单选题] When voice services are deployed over a wireless environment, which service must be Disabled to ensure the quality of calls?

- A) Aggressive load balancing
- B) Dynamic transmit power control
- C) Priority queuing
- D) Fastlane

96. [单选题] What is used to measure the total output energy of a Wi-Fi device?

- A) dBi
- B) EIRP
- C) mW
- D) dBm

97. [单选题] Which password must an engineer use to enter the enable mode?

```
Atlanta#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Atlanta(config)#aaa new-model
Atlanta(config)#aaa authentication login default local
Atlanta(config)#line vty 0 4
Atlanta(config-line)#login authentication default
Atlanta(config-line)#exit
Atlanta(config)#username ciscoadmin password adminadmin123
Atlanta(config)#username ciscoadmin privilege 15
Atlanta(config)#enable password cisco123
Atlanta(config)#enable secret testing1234
Atlanta(config)#end
```

class="fr-fic fr-dib cursor-hover"

- A) adminadmin123
- B) default
- C) testing 1234
- D) cisco123

98. [单选题] When a floating static route is configured, which action ensures that the backup route is used when the primary route fails?

- A) The floating static route must have a higher administrative distance than the primary route so it is used as a backup
- B) The administrative distance must be higher on the primary route so that the backup route becomes secondary.
- C) The floating static route must have a lower administrative distance than the primary route so it is

used as a backup

D)The default-information originate command must be configured for the route to be installed into the routing table

99. [单选题]What mechanism carries multicast traffic between remote sites and supports encryption?

- A) ISATAP
- B) GRE over IPsec
- C) IPsec over ISATAP
- D) GRE

100. [单选题]which command can you enter to configure a built-in policer with minimum guaranteed bandwidth without starving other classes during periods of congestion?

- A) BANDWIDTH REMAINING PERCENT
- B) BANDWIDTH
- C) PRIORITY PERCENT
- D) FAIR-QUEUE

101. [单选题]A company plans to implement intent-based networking in its campus infrastructure. Which design facilities a migrate from a traditional campus design to Programmer fabric designer?

- A) Layer 2 access
- B) Three-tier
- C) Two-tier
- D) Routed access

102. [单选题]Which outcome is achieved with this Python code?

```
Client.connect (ip, port= 22, username= usr, password= pswd )  
Stdin, stdout, stderr = client.exec_command ('show ip bgp 192.168.101.0 bestpathin')  
Print (stdout)
```

- A) Connects to a Cisco device using SSH and exports the BGP table for the prefix
- B) Connects to a Cisco device using SSH and exports the routing table information
- C) Displays the output of the show command in a formatted way
- D) Connects to a Cisco device using Telnet and exports the routing table information

103. [单选题]Which IPv6 first-hop security feature blocks traffic sourced from IPv6 addresses that are outside the prefix gleaned from router advertisements?

- A) IPV6 RA GUARD
- B) IPV6 DHCP GUARD
- C) IPV6 SOURCE GUARD
- D) IPV6 PREFIX GUARD

104. [单选题]A network administrator is preparing a Python script to configure a Cisco IOS XE-based device on the network. The administrator is worried that colleagues will make changes to the device while the script is running. Which operation of the client manager in prevent colleague making changes to the device while the script is running?

- A) m.lock (config=' running')
- B) m.lock (target=' running')
- C) m.freeze (target=' running')
- D) m.freeze (config=' running')

105. [单选题]Which A record type should be configured for access points to resolve the IP address of a

wireless LAN controller using DNS?

- A) CISCO.CONTROLLER.localdomain
- B) CISCO.CAPWAP.CONTROLLER.localdomain
- C) CISCO-CONTROLLER.localdomain
- D) CISCO-CAPWAP-CONTROLLER.localdomain

106. [单选题] which WPA3 enhancement protects against hackers viewing traffic on the Wi-Fi network?

- A) TKIP encryption
- B) SAE encryption
- C) AES encryption
- D) scrambled encryption key

107. [单选题] The following system log message is presented after a network administrator configures a GRE tunnel

```
%TUN-RECURDOWN Interface Tunnel 0 temporarily disabled due to recursive routing
```

Why is Tunnel 0 disabled?

- A) Because dynamic routing is not enabled
- B) Because the router cannot recursively identify its egress forwarding interface
- C) Because the best path to the tunnel destination is through the tunnel itself
- D) Because the tunnel cannot reach its tunnel destination.

108. [单选题] When firewall capabilities are considered, which feature is found only in Cisco next-Generation firewalls?

- A) malware protection
- B) stateful inspection
- C) traffic filtering
- D) active/standby high availability

109. [单选题] An organization secures its network with multi-factor authentication using an authenticator app on employee smartphones. How is the app secured in the case of

A user's smartphone being lost or stolen?

- A) The application requires the user to enter a PIN before it provides the second factor
- B) the application challenges a user by requiring an administrator password to reactivate when the smartphone is rebooted
- C) The application requires an administrator password to reactivate after a configured interval
- D) The application verifies that the user is in a specific location before it provides the second factor

110. [单选题] Which one of these is a valid HSRP Virtual Mac Address?

- A) 0000.0C07.AC15
- B) 0000.5E00.01A3
- C) 0007.B400.AE01
- D) 0007.5E00.B301

111. [单选题] How are the different versions of IGMP compatible?

- A) IGMPv2 is compatible only with IGMPv1
- B) IGMPv2 is compatible only with IGMPv2
- C) IGMPv3 is compatible only with IGMPv3
- D) IGMPv3 is compatible only with IGMPv1

112. [单选题]What is the source MAC address of a BPDU frame that is sent out of a port ?

- A)THE LOWEST MAC ADDRESS ON THE SWITCH
- B)THE HIGHEST MAC ADDRESS ON THE SWITCH
- C)THE MAC ADDRESS OF THE INDIVIDUAL PORT THAT IS SENDING THE BPDU
- D)THE SAME AS THE MAC ADDRESS IN THE BRIDGE ID

113. [单选题]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.

114. [单选题]"HTTP/1.1 204 No Content" is returned when the curl -i X DELETE command is issued. Which situation has occurred?

- A)The command succeeded in deleting the object.
- B)The object could not be located at the URI path.
- C)The object was located at the URI, but it could not be deleted.
- D)The URI was invalid.

115. [单选题]Company A have two remote sites, which are connected to a common ISP by BGP. At each site, company A is using the same autonomous system number. Which BGP feature can you implement to enable routing between the two sites?

- A)COMMUNITIES
- B)PEER GROUPS
- C)ALLOWAS - IN
- D)AS PATH PREPENDING

116. [单选题]Which LLDP extension provides additional support for VoIP?

- A)TLV
- B)LLDP-MED
- C)LLDPv3
- D)LLDP-VOIP

117. [单选题]In an MPLS-VPN environment, what is the effect of configuring an identical set of route targets for a particular VRF but then configuring a nonidentical RD across multiple PE devices?

- A)The routes are rejected by the remote PE because they have a different RD than its routes.
- B)The routes are correctly managed by the control plane, but there are instances where routes take up twice as much memory.
- C)The routes are not sent to any remote PE with a different RD.
- D)The routes propagate to the remote PE. but the PE never installs them in its forwarding table.

118. [单选题]If you configure a router interface both IPv4 and IPv6 on an IS-IS network in single-topology mode, what additional configurations required?

- A)IPv4 and IPv6 addresses must be configured with the same prefix length.
- B)IPv4 and IPv6 must be configured on different routing protocols.
- C)IPv4 and IPv6 must be configured with different metric types.
- D)IPv4 and IPv6 must be configured to nm the same IS-IS level.

119. [单选题]which network allows devices to communicate without the need to access the internet?

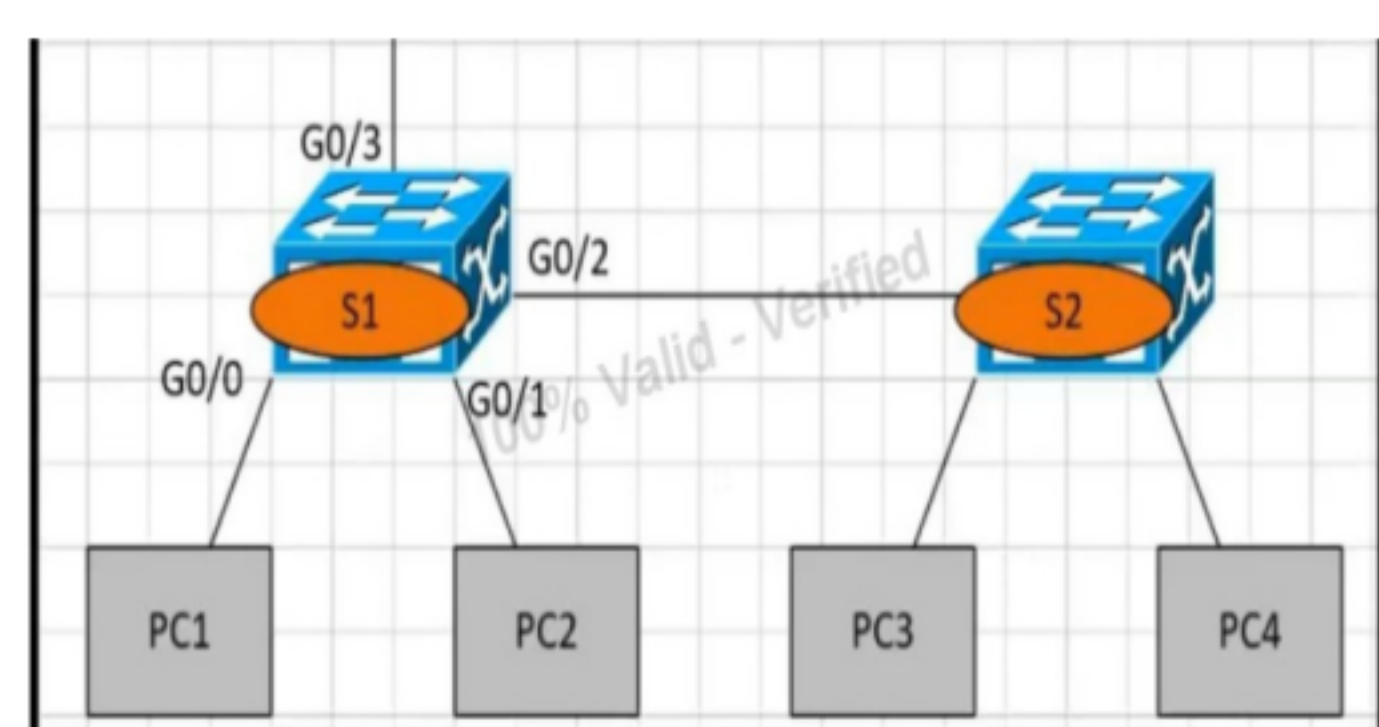
- A)172.9.0.0/16
- B)172.28.0.0/16

- C) 192.0.0.0/18
- D) 209.165.201.0/24

120. [单选题] What is required for a virtual machine to run?

- A) a hypervisor and physical server hardware
- B) a Type 1 hypervisor and a host operating system
- C) only a Type 1 hypervisor
- D) only a Type 2 hypervisor

121. [单选题] PC1 is trying to ping PC3 for the first time and sends out an ARP to S1. Which action is taken by S1?



class="fr-fic fr-dib cursor-hover"

- A) It forwards it out G0/3 only
- B) It is flooded out every port except G0/0
- C) It drops the frame
- D) It forwards it out interface G0/2 only

122. [单选题] When is the Design workflow used in Cisco DNA Center?

- A) in a greenfield deployment, with no existing infrastructure
- B) in a greenfield or brownfield deployment, to wipe out existing data
- C) in a brownfield deployment, to modify configuration of existing devices in the network
- D) in a brownfield deployment, to provision and onboard new network devices

123. [单选题] Which entity is a Type 1 hypervisor?

- A) Oracle VM VirtualBox
- B) VMware server
- C) Citrix XenServer
- D) Microsoft Virtual PC

124. [单选题] how many address families can a single OSPFV3 instance support?

- A) 1
- B) 2

- C) 5
- D) 10

125. [单选题] A corporate office uses four floors in a building

Floor 1 has 24 users

Floor 2 has 29 users

Floor 3 has 28 users

Floor 4 has 22 users

Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration?

- A) 192.168.0.0/26 as summary and 192.168.0.0/29 for each floor
- B) 192.168.0.0/24 as summary and 192.168.0.0/28 for each floor
- C) 192.168.0.0/23 as summary and 192.168.0.0/25 for each floor
- D) 192.168.0.0/25 as summary and 192.168.0.0/27 for each floor

126. [单选题] How do the RIB and the FIB differ?

A) RIB contains the interface for a destination, and the FIB contains the next hop information

B) FIB contains routes learned through a dynamic routing protocol, and the RIB contains routes that are static or directly connected

C) RIB is derived from the control plane, and the FIB is derived from the RIB

D) FIB is derived from the control plane, and the RIB is derived from the data plane

127. [单选题] on which port type would you configure STP portfast BPDU guard?

A) ROOT PORTS

B) DESIGNATED PORTS

C) HOST PORTS

D) ALTERNATE PORTS

128. [单选题] Which topology allows the split-horizon rule to be safely disabled when using EIGRP?

A) full mesh

B) partial mesh

C) hub and spoke

D) ring

129. [单选题] Which IP SLA operation type uses IP to measure the round-trip time between a router and a device?

A) HTTP

B) ICMP ECHO

C) ICMP PATH JITTER

D) UDP JITTER FOR VOIP

130. [单选题] 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.

131. [单选题] Question 4

Refer to the exhibit.

Device#configure terminal

```
Device(config)#netconf ssh acl 1
Device(config)#netconf lock-time 100
Device(config)#netconf max-sessions 1
Device(config)#netconf max-message 10
```

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?

- A) Device(config)# no netconf ssh acl 1
- B) Device(config)# netconf max-sessions 100
- C) Device(config)# netconf lock-time 500
- D) Device(config)# netconf max-message 1000

132. [单选题] With which metric was the route to host 172.16.0.202 learned?

```
RI# show ip route | begin gateway
Gateway of last resort is 209.165.200.246 to network 0.0.0.0
S* 0.0.0.0/0 [1/0] via 209.165.200.246, Serial0/1/0
   is directly connected, Serial0/1/0
   172.16.0.0/16 is variably subnetted, 3 subnets, 3 masks
S   172.16.0.0/24 [1/0] via 207.165.200.250, Serial0/0/0
O   172.16.0.128/25 [110/38443] via 207.165.200.254, 00:00:23, Serial0/0/1
D   172.16.0.192/29 [90/3184439] via 207.165.200.254, 00:00:25, Serial0/0/1
   209.165.200.0/24 is variably subnetted, 4 subnets, 2 masks
C   209.165.200.248/30 is directly connected, Serial0/0/0
L   209.165.200.249/32 is directly connected, Serial0/0/0
C   209.165.200.252/30 is directly connected, Serial0/0/1
L   209.165.200.253/32 is directly connected, Serial0/0/1
```

class="fr-fic fr-dib cursor-hover"

- A) 0
- B) 110
- C) 38443
- D) 3184439

133. [单选题] Where in Cisco DNA Center is documentation of each API call, organized by its functional area?

- A) Runtime Dashboard
- B) platform bundles
- C) platform management
- D) Developer Toolkit

134. [单选题] which purpose does a northbound API serve in a controller-based networking architecture?

- A) communicates between the controller and the physical network hardware
- B) reports device errors to a controller
- C) generates statistics for network hardware and traffic
- D) Facilitates communication between the controller and the applications

135. [单选题] When is an external antenna used inside a building?

- A) only when using 5 GHz
- B) only when using 2.4 GHz
- C) when it provides the required coverage
- D) only when using Mobility Express

136. [单选题] In Cisco SD-WAN, which protocol is used to measure link quality?

- A) OMP
- B) BFD
- C) RSVP
- D) IPsec

137. [单选题] An email user has been lured into clicking a link in an email sent by their company's security organization. The webpage that opens reports that it was safe but the link could have contained malicious code (恶意代码). Which type of security program is in place?

- A) Physical access control
- B) Social engineering attack
- C) brute force attack
- D) user awareness

138. [单选题] Which PAgP mode combination prevents an EtherChannel from forming?

- A) auto/desirable
- B) desirable/desirable
- C) desirable/auto
- D) auto/auto

139. [单选题] Which keychain cryptographic algorithm is supported by the IS-IS routing protocol?

- A) HMAC-SHA1-12
- B) HMAC-MD5
- C) MD5
- D) HMAC-SHA1-20

140. [单选题] Which result occurs when PortFast is enabled on an interface that is connected to another switch?

- A) Spanning tree may fail to detect a switching loop in the network that causes broadcast storms
- B) VTP is allowed to propagate VLAN configuration information from switch to switch automatically.
- C) Root port choice and spanning tree recalculation are accelerated when a switch link goes down
- D) After spanning tree converges PortFast shuts down any port that receives BPDUs.

141. [单选题] for which feature is the address family "Rtfilter" Used?

- A) ENHANCED ROUTE REFRESH
- B) MPLS VPN FILTERING
- C) ROUTE TARGET CONSTRAINT
- D) UNIFIED MPLS

142. [单选题] 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']) }

143. [单选题] How do AAA operations compare regarding user identification, user services, and access control?

- A) Authorization provides access control, and authentication tracks user services
- B) Accounting tracks user services, and authentication provides access control.
- C) Authorization identifies users, and authentication provides access control
- D) Authentication identifies users, and accounting tracks user services

144. [单选题] Which access point mode allows a supported AP to function like a WLAN client would, associating and identifying client connectivity issues?

- A) client mode
- B) SE-connect mode
- C) sensor mode
- D) sniffer mode

145. [单选题] external EIGRP route exchange on routers R1 and R2 was failing because the routers had duplicate router ids. You changed the eigrp router-id command on R1, but the problem persists. which additional action must you take to enable the routers to exchange routes?

- A) CHANGE THE CORRESPONDING LOOPBACK ADDRESS.
- B) CHANGE THE ROUTER ID ON R2.
- C) RESET THE EIGRP NEIGHBOR RELATIONSHIP.
- D) CLEAR THE EIGRP PROCESS.

146. [单选题] A floating static route appears in the routing table of an interface even when the interface is unusable. Which action can you take to correct the problem?

- A) REMOVE THE PERMANENT OPTION FROM THE STATIC ROUTER
- B) CORRECT THE ADMINISTRATIVE DISTANCE.
- C) CONFIGURE THE FLOATING STATIC ROUTE TO POINT TO ANOTHER IN THE ROUTING TABLE.
- D) CORRECT THE DHCP-PROVIDED ROUTE ON THE DHCP SERVER.

147. [单选题] Which of the port is not part of STP protocol.

- A) Listening
- B) Learning
- C) Forwarding
- D) Discarding

148. [单选题] which options is the implicit access rule for IPV6 acls?

- A) PERMIT ALL
- B) PERMIT NEIGHBOR DISCOVERY, DENY EVERYTHING ELSE
- C) DENY ALL
- D) PERMIT ALL ICMP, DENY EVERYTHING ELSE

149. [单选题] Which outcome is achieved with this Python code?

```
client.connect(ip, port=22, username=usr, passwords=pswd)
stdin, stdout, stderr = client.exec_command('show ip bgp 192.168.101.0 bestpathin')
print(stdout)
```

- A) connects to a Cisco device using SSH and exports the routing table information
- B) connects to a Cisco device using SSH and exports the BGP table for the prefix
- C) connects to a Cisco device using Telnet and exports the routing table information
- D) displays the output of the show command in a formatted way

150. [单选题] Which behavior can be expected when the HSRP version is changed from 1 to 2?

- A) Each HSRP group reinitializes because the virtual MAC address has changed
- B) No changes occur because version 1 and 2 use the same virtual MAC OUI
- C) Each HSRP group reinitializes because the multicast address has changed
- D) No changes occur because the standby router is upgraded before the active router

151. [单选题] Which command can you enter to configure a built-in policer with minimum guaranteed bandwidth without starving other classes during periods of congestion?

- A) BANDWIDTH REMAINING PERCENT

- B) BANDWIDTH
- C) PRIORITY PERCENT
- D) FAIR-QUEUE

152. [单选题] Which measurement is used from a post wireless survey to depict the cell edge of the access points?

- A) SNR
- B) Noise
- C) RSSI
- D) CCI

153. [单选题] Which value does EIGRP use to determine the metric for a summary address?

- A) THE AVERAGE OF THE COMPONENT METRICS
- B) A DEFAULT FIXED VALUE
- C) THE LOWEST METRIC AMONG THE COMPONENT ROUTES
- D) THE HIGHEST METRIC AMONG THE COMPONENT ROUTES

154. [单选题] How are the Cisco Express Forwarding table and the FIB related to each other?

- A) THE FIB IS USED TO POPULATE THE CISCO EXPRESS FORWARDING TABLE.
- B) THE CISCO EXPRESS FORWARDING TABLE ALLOWS ROUTE LOOKUPS TO BE FORWARDED TO THE ROUTE PROCESSOR FOR PROCESSING BEFORE THEY ARE
- C) THERE CAN BE ONLY ONE FIB BUT MULTIPLE CISCO EXPRESS FORWARDING TABLES ON IOS DEVICES.
- D) CISCO EXPRESS FORWARDING USES A FIB TO MAKE IP DESTINATION PREFIX-BASED SWITCHING DECISIONS.

155. [单选题] What protocol allows an engineer to back up 20 network router configurations globally while using the copy function?

- A) SMTP
- B) SNMP
- C) TCP
- D) FTP

156. [单选题] Which neighbor-discovery message type is used to verify connectivity to a neighbor when the link-layer address of the neighbor is known? A. neighbor solicitation

- A) NEIGHBOR SOLICITATION
- B) NEIGHBOR ADVERTISEMENT
- C) ROUTER ADVERTISEMENT
- D) ROUTER SOLICITATION

157. [单选题] Which element enables communication between guest VMs within a virtualized environment?

- A) vSwitch
- B) virtual router
- C) hypervisor
- D) pNIC

158. [单选题] Which solution do IaaS service providers use to extend a Layer 2 segment across a Layer 3 network?

- A) VLAN
- B) VTEP
- C) VXLAN
- D) VRF

159. [单选题]How are the Cisco Express Forwarding table and the FIB related to each other?
- A) THE FIB IS USED TO POPULATE THE CISCO EXPRESS FORWARDING TABLE.
 - B) THE CISCO EXPRESS FORWARDING TABLE ALLOWS ROUTE LOOKUPS TO BE FORWARDED TO THE ROUTE PROCESSOR FOR PROCESSING BEFORE THEY ARE
 - C) THERE CAN BE ONLY ONE FIB BUT MULTIPLE CISCO EXPRESS FORWARDING TABLES ON IOS DEVICES.
 - D) CISCO EXPRESS FORWARDING USES A FIB TO MAKE IP DESTINATION PREFIX-BASED SWITCHING DECISIONS.
160. [单选题]How does a IPv6 host automatically generate a global address?
- A) IT APPENDS ITS INTERFACE IDENTIFIER TO THE NETWORK PREFIXES CONTAINED IN ROUTER ADVERTISEMENT MESSAGES.
 - B) IT APPENDS ITS INTERFACE IDENTIFIER TO THE NETWORK PREFIXES CONTAINED IN ROUTER ADVERTISEMENT MESSAGES.
 - C) IT APPENDS ITS INTERFACE IDENTIFIER TO THE NETWORK PREFIXES CONTAINED IN ROUTER SOLICITATION MESSAGES,
 - D) IT PREPENDS ITS INTERFACE IDENTIFIER TO THE NETWORK PREFIXES CONTAINED IN ROUTER SOLICITATION MESSAGES
161. [单选题]How is the native VLAN secured in a network?
- A) separate from other VLANs within the administrative domain
 - B) give it a value in the private VLAN range
 - C) assign it as VLAN 1
 - D) configure it as a different VLAN ID on each end of the link
162. [单选题]Where is radio resource management performed in a Cisco SD-access wireless solution?
- A) control plane node
 - B) DNA Center
 - C) Cisco CMX
 - D) wireless controller
163. [单选题]Which design principle should be followed in a Cisco SD-Access wireless network Deployment?
- A) The WLC is part of the fabric overlay
 - B) The WLC is part of the fabric underlay
 - C) The WLC is connected outside of the fabric
 - D) The access point is connected outside of the fabric
164. [单选题]When you implement PFR, which IP SLA probe is used to determine the MOS?
- A) JITTER
 - B) LATENCY
 - C) PACKET LOSS
 - D) THROUGHPUT
165. [单选题]What event has occurred if a router sends a notice level message to a syslog server?
- A) A TCP connection has been turned down
 - B) An ICMP connection has been built
 - C) An interface line has changed status
 - D) A certificate has expired.
166. [单选题]Which outcome is achieved with this Python code?
- ```
Client.connect(ip, port=22, username=usr, password=pswd)
Stdin, stdout, stderr = client.exec_command('show ip bgp 192.168.10100 bestpath\n')
Print(stdout)
```
- A) displays the output of the show command in a formatted way

- B) connects to a Cisco device using SSH and exports the routing table information
- C) connects to a Cisco device using Telnet and exports the routing table information
- D) connects to a Cisco device using SSH and exports the BGP table for the prefix

167. [单选题] 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

168. [单选题] 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

169. [单选题] Which technology does Cisco PFR use to collect passive monitoring statistics?

- A) NBAR
- B) SNMP
- C) SYSLOG
- D) NETFLOW

170. [单选题] Which function does the range of private IPv4 addresses perform?

- A) allow multiple companies to each use the same address without conflicts
- B) provides a direct connection for hosts from outside of the enterprise network
- C) ensures that NAT is not required to reach the internet with private range addressing
- D) enable secure communications to the internet for all external hosts

171. [单选题] Which benefit is offered by a cloud infrastructure deployment but is lacking in an on-premises deployment?

- A) efficient scalability
- B) virtualization
- C) storage capacity
- D) supported systems

172. [单选题] A system must validate access rights to all its resources and must not rely on a cached permission matrix. If the access level to a given resource is revoked but is not reflected in the permission matrix, the security is violated. Which term refers to this REST security design principle?

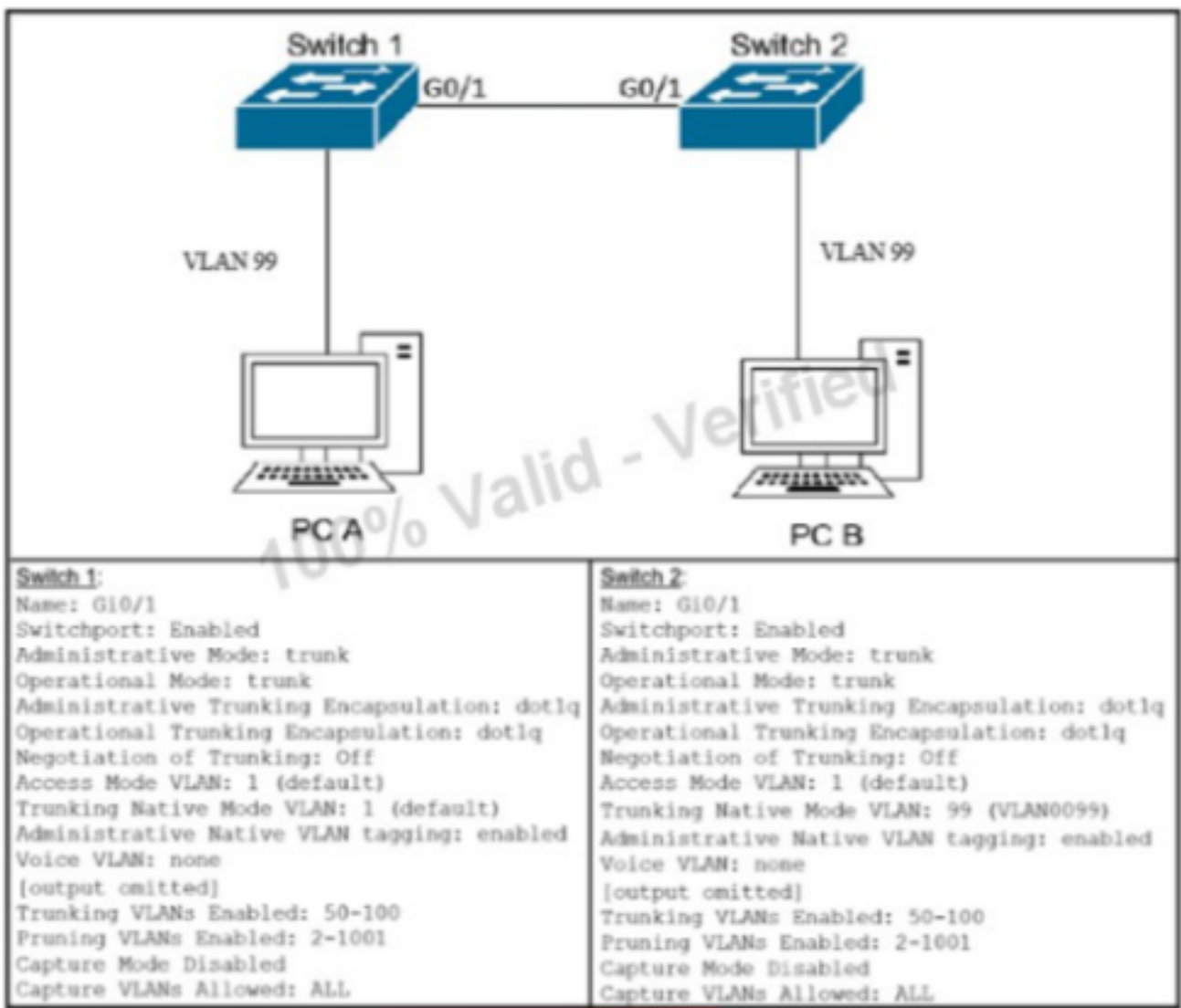
- A) least common mechanism
- B) complete mediation
- C) separation of privilege
- D) economy of mechanism

173. [单选题] After the switch configuration the ping test fails between PC A and PC B. Based on the output for switch 1, which error must be corrected?

```
class="fr-fic fr-dib cursor-hover"
```

- A) There is a native VLAN mismatch
- B) Access mode is configured on the switch ports
- C) The PCs are in the incorrect VLAN
- D) All VLANs are not enabled on the trunk





174. [单选题] Which goal is achieved by the implementation of private IPv4 addressing on a network?

- A) provides an added level of protection against Internet exposure
- B) provides a reduction in size of the forwarding table on network routers
- C) allows communication across the Internet to other private networks
- D) allows servers and workstations to communicate across public network boundaries

175. [单选题] While configuring an IOS router for HSRP with a virtual IP of 10.1.1.1, an engineer sees this

Log message:

```
Jan 1 12:12:14.122: %HSRP-4-DIFFVIP1: GigabitEthernet0/0 Grp 1 active routers virtual IP address 10.1.1.1 is different to the locally configured address 10.1.1.25
```

Which configuration change must the engineer make?

- A) Change the HSRP group configuration on the remote router to 1
- B) Change the HSRP virtual address on the local router to 10.1.1.1
- C) Change the HSRP virtual address on the remote router to 10.1.1.1
- D) Change the HSRP group configuration on the local router to 1

176. [单选题] In a three-tier hierarchical campus network design, which action is a design best-practice for the core layer?

- A) provide QoS prioritization services such as marking, queueing, and classification for critical network

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