300-420^{Q&As}

Designing Cisco Enterprise Networks (ENSLD)

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QUESTION 1

Which method does Cisco SD-WAN use to avoid fragmentation issues?

A. PMTUD is used.

B. Access circuits are configured with 1600 byte MTU settings.

C. Jumbo frames are enabled.

D. Traffic is marked with the DF bit set.

Correct Answer: A

https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cisco-sd-wan-ebook-cte-en.pdf

QUESTION 2

An engineer must design a large Layer 2 domain that contains hundreds of switches and VLANs. The engineer\\'s primary goals are to:

1.

Efficiently utilize the bandwidth of all links

2.

Avoid Layer 2 loops

3.

Cause minimal impact on switch CPU and memory Which technology should the engineer include in the design?

A. MST

B. Rapid PVST+

C. RSTP

D. PVST+

Correct Answer: A

QUESTION 3

DRAG DROP

Drag and drop the characteristics from the left onto the configuration protocols they describe on the right.

Select and Place:

Answer Area

| uses HTTP transport |
| uses SSH transport |
| defined in RFC 6241 |
| defined in RFC 8040 |

NETCONF

RESTCONF

Correct Answer:
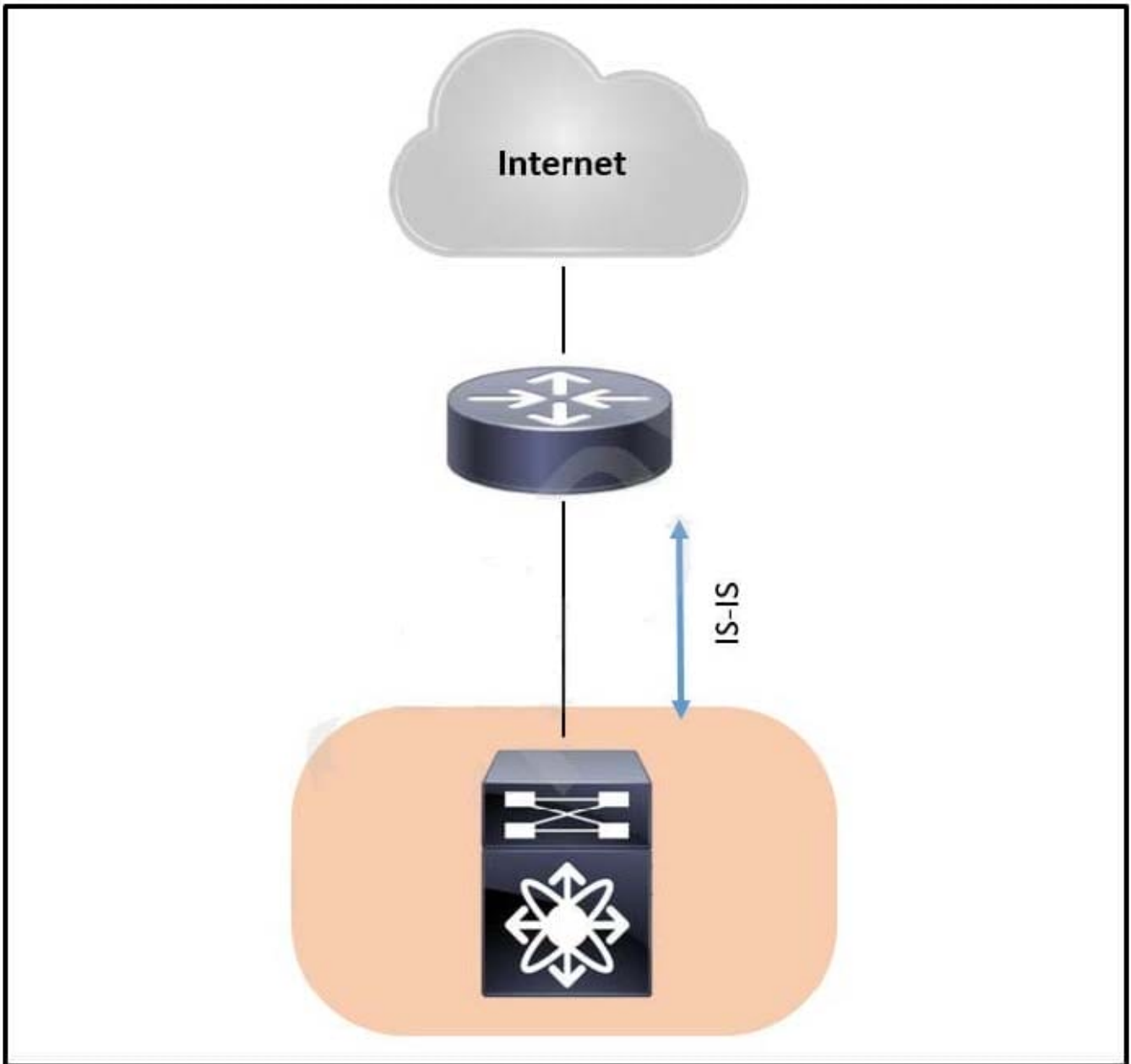
Answer Area

NETCONF
- uses SSH transport
- defined in RFC 6241

RESTCONF
- uses HTTP transport
- defined in RFC 8040

QUESTION 4

Refer to the exhibit.

An architect must design an IGP solution for an enterprise customer. The design must support:

1.

Physical link flaps should have minimal impact.

2.

Access routers should converge quickly after a link failure.

Which two ISIS solutions should the architect include in the design? (Choose two.)

A. Use BGP to IS-IS redistribution to advertise all Internet routes in the Level 1 area.

B. Advertise the IS-IS interface and loopback IP address toward the Internet and data center.

C. Reduce SPF and PRC intervals to improve convergence time.

D. Configure all access and aggregate routers to establish Level 1 / Level 2 adjacencies across the network.

E. Configure access routers to establish a Level 1 adjacency and aggregate routers to establish a Level 1 / Level 2 adjacency.

Correct Answer: CD

QUESTION 5

Prior to establishing full-mesh iPsec tunnels in a typical Cisco SD-WAN deployment, which mechanism do WAN Edge routers use to exchange Key information for data plane encryption?

A. They use vSmart controllers as key exchange servers.

B. They use vManage as a key exchange server.

C. They use IKEv2 when exchanging keys with each other.

D. They use vBond as a key exchange server.

Correct Answer: A

QUESTION 6

A customer reports that each time a networking component fails, OSPF recalculates the backup path, with causes a short outage. Which solution must the customer implement to improve this situation?

A. Aggressive OSPF timers

B. LFA FRR

C. Incremental SPF

D. BFD

Correct Answer: C

QUESTION 7

An engineer is designing an enterprise campus network. The LAN infrastructure consists of switches from multiple vendors, and Spanning Tree must be used as a Layer 2 loop prevention mechanism. All configured VLANs must be grouped in two SIP instances.

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Which standards-based Spanning Tree technology supports this design solution?

A. MSTP

B. RSTP

C. Rapid PVST

D. STP

Correct Answer: A

QUESTION 8

A network engineer must connect two sites across a public network using a secure tunneling technology that supports multicast traffic. Which technology must be chosen?

A. IPsec

B. GRE

C. PPTP

D. GRE over IPsec

Correct Answer: D

QUESTION 9

Refer to the exhibit. An architect reviews the low-level design of a company\\'s enterprise network and advises optimizing the STP convergence time. Which functionality must be applied to Gi1/0/1-10 to follow the architect\\'s recommendation?
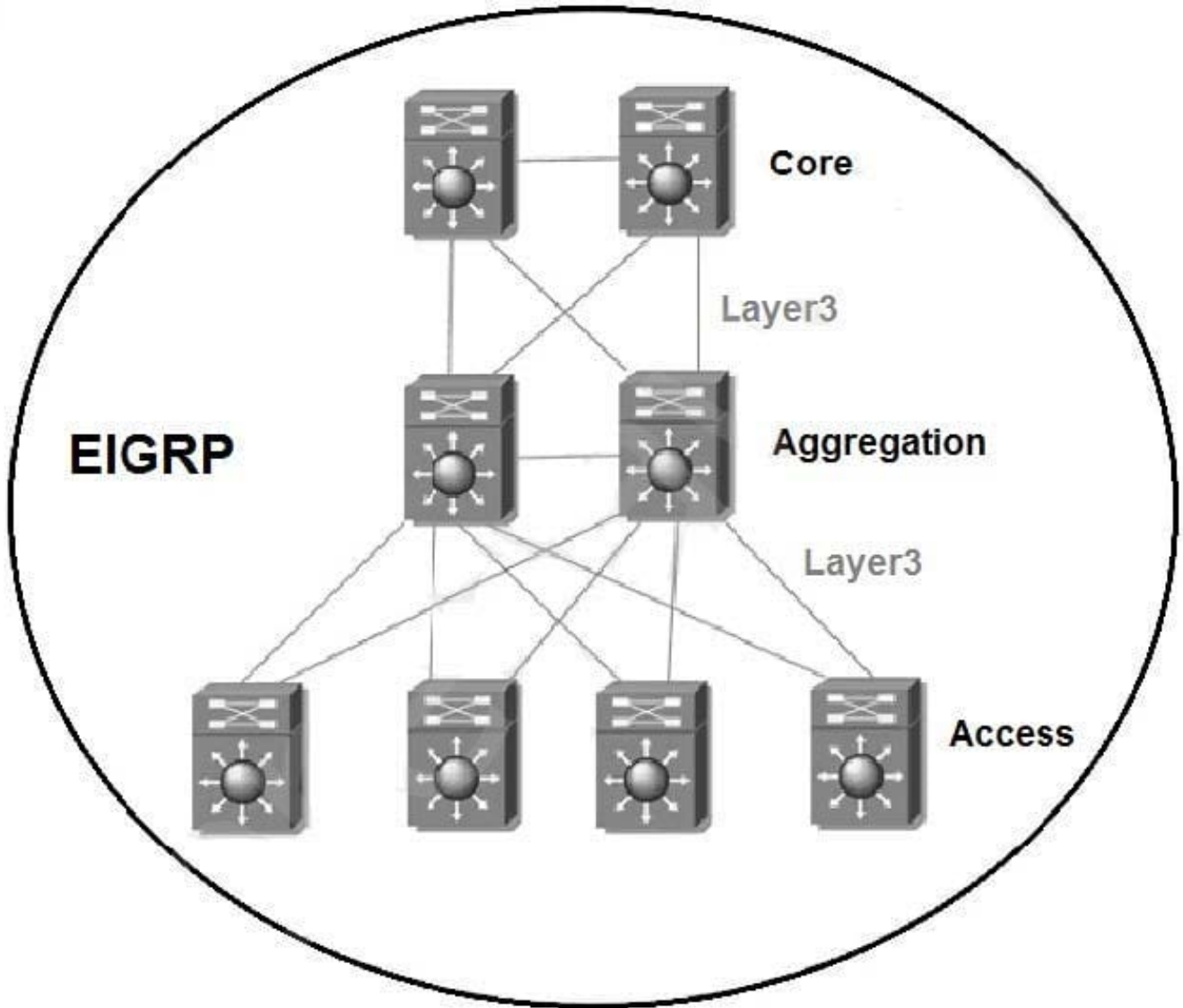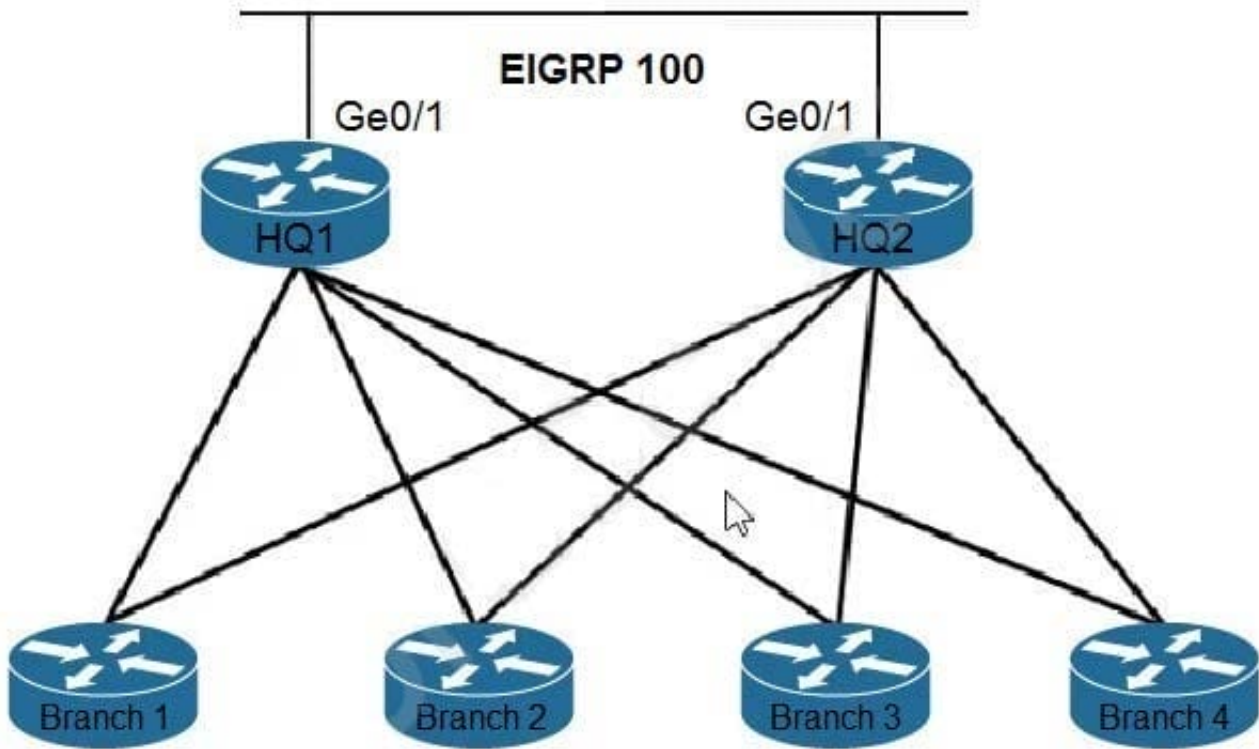
A. UplinkFast

B. root guard

C. BPDU guard

D. PortFast

Correct Answer: D

QUESTION 10

Refer to the exhibit. An architect must design a solution to connect the two ASs. To optimize bandwidth, the design will implement load sharing between router R6 and router R1. Which solution should the design include?

A. Use update-source to specify the Loopback interface.

B. Use next-hop-self attributes only for routes that are learned from eBGP peers.

C. Configure the eBGP TTL to support eBGP multihop.

D. Use maximum-paths to install multiple paths in the routing table.

Correct Answer: D

QUESTION 11

Which queuing structure is used on SD-WAN Edge routers?

A. FIFO

B. LLQ+WFQ

C. 1P-4Q-2T

D. Priority

Correct Answer: B

Explanation: It uses a combination of low latency queuing (LLQ) and weighted fair queuing (WFQ) to prioritize critical traffic while still guaranteeing bandwidth for other traffic types. The LLQ portion of the queuing structure is used to prioritize certain types of traffic, while the WFQ portion is used to ensure that all traffic is serviced fairly. This queuing structure is used to make sure that critical traffic is not delayed or dropped, while still allowing for other traffic types to be

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serviced.

QUESTION 12

Which feature provides the capability for intra-VN traffic filtering and control within the Cisco SO-Access architecture?

A. scalable groups

B. MAC ACL

C. prefix list

D. service policy

Correct Answer: A

QUESTION 13

Which two functions does the control plane node provide in a Cisco SD-Access architecture? (Choose two.)

A. LISP proxy ETR

B. host tracking database

C. policy mapping

D. map server

E. endpoint registration

Correct Answer: BD

QUESTION 14

Company A recently acquired another company. Users of the newly acquired company must be able to access a server that exists on Company A\\'s network, both companies use overlapping IP address ranges. Which action conserves IP address space and provides access to the server?

A. Use a single IP address to create overload NAT

B. Use a single IP address to create a static NAT entry

C. Build one-to-one NAT translation for every user that needs access

D. Re-IP overlapping address space in the acquired company

Correct Answer: A

QUESTION 15

![Pass2Lead](https://Pass2Lead.com)
DRAG DROP

Drag and drop the model driven telemetry characteristics from the left onto the mode they belong to on the right.

Select and Place:

Updates are sent to the collector.	Dial-in
Updates are sent to the subscriber.	
Subscriptions must be re-initiated after a reload.	Dial-out
Subscriptions are part of the device's configuration.	

Correct Answer:

	Dial-in
	Updates are sent to the subscriber.
	Subscriptions must be re-initiated after a reload.
	Dial-out
	Updates are sent to the collector.
	Subscriptions are part of the device's configuration.

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