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**QUESTION 1**

Company XYZ, a global content provider, owns data centers on different continents. Their data center design involves a standard three-layer design with a Layer 3-only core. HSRP is used as the FHRP. They require VLAN extension across access switches in all data centers, and they plan to purchase a Layer 2 interconnection between two of their data centers in Europe.

In the absence of other business or technical constraints, which termination point is optimal for the Layer 2 interconnection?

- A. at the core layer, to offer the possibility to isolate STP domains
- B. at the aggregation layer because it is the Layer 2 to Layer 3 demarcation point
- C. at the access layer because the STP root bridge does not need to align with the HSRP active node
- D. at the core layer because all external connections must terminate there for security reasons

Correct Answer: B

QUESTION 2

Identity and access management between multiple users and multiple applications has become a mandatory requirement for Company XYZ to fight against ever increasing cybersecurity threats. To achieve this, federated identity services have been deployed in the Company XYZ network to provide single sign-on and Multi-Factor Authentication for the applications and services. Which protocol can be used by Company XYZ to provide authentication and authorization services?

- A. OAuth2
- B. OpenID Connect
- C. OpenID
- D. SAML2.0

Correct Answer: D

OpenID lacks user authorization data (such as permissions) and focuses primarily on identity assertion.

QUESTION 3

Which actions are performed at the distribution layer of the three-layer hierarchical network design model? (Choose two)

- A. Fast transport
- B. Reliability



- C. QoS classification and marking boundary
- D. Fault isolation
- E. Redundancy and load balancing

Correct Answer: DE

QUESTION 4

As a network designer you need to support an enterprise with hundreds of remote sites connected over a single WAN network that carries different types of traffic, including VoIP, video, and data applications, which of following design considerations will not impact design decision?

- A. Focus on the solution instead of the problem, which helps to reduce downtime duration
- B. The location of the data collection
- C. What direction the data or flows should be metered
- D. Identify traffic types and top talkers over this link

Correct Answer: A

QUESTION 5

A customer migrates from a traditional Layer 2 data center network into a new SDN-based. spine-and-leaf VXLAN EVPN data center within the same location. The networks are joined to enable host migration at Layer 2. Which activity should be completed each time a legacy network is migrated?

- A. The migrated VLAN should be pruned from the Layer 2 interconnects.
- B. The migrated network should have a VXLAN VNID configured within the new network.
- C. The migrated network should be advertised to the EVPN network as a Type 2 network.
- D. The migrated network should be added to the EVPN BGP routing.

Correct Answer: B

his VNID provides a unique identifier for the network within the VXLAN overlay, which allows the network to be identified and properly routed within the new network. This is a key step in enabling host migration at Layer 2.

QUESTION 6

A consultant needs to evaluate project management methodologies for a new service deployment on the existing network of a customer. The customer wants to be involved in the end-to-end project progress and be provided with frequent updates. The customer also wants the ability to change the requirements if needed, as the project progresses. Which project management methodology should be used?

- A. three principles



- B. phased
- C. Agile
- D. Waterfall

Correct Answer: C

QUESTION 7

Company XYZ wants to secure the data plane of their network. Which two technologies can be included in the security design? (Choose two)

- A. DAI
- B. IP Source Guard
- C. BEEP
- D. CPPr
- E. MPP

Correct Answer: AB

as cPPr is control plane protection BEEP is application protocol MPP is Webex app

Reference: <https://www.ciscopress.com/articles/article.asp?p=2928193andseqNum=4>

QUESTION 8

During evaluation of migrating current on premises infrastructure to add cloud-based infrastructure, a network planning team must meet three core requirements as they make recommendations on which cloud strategy to adopt going forward

1.

Technology is changing rapidly, therefore the enterprise must be open to adopting new ways of doing things, and be ready to invest CapEx-funds in the next three years

2.

Network bandwidth capacity requirements are dynamic and are expected to change over the next year

3.

If new technologies are to be introduced, operational expenses must be kept at a minimum.

Which cloud strategy meets these requirements?

- A. private
- B. hybrid



C. public

D. multcloud

Correct Answer: D

Here are the benefits of multi-cloud model <https://www.cisco.com/c/en/us/solutions/cloud/what-is-multicloud.html#~benefits-of-multicloud-model>

QUESTION 9

An enterprise requires MPLS connected branches to access cloud-based Microsoft 365 services over an SD-WAN solution. Internet access is available only at dual regional hub sites that are connected to the MPLS network. Which connectivity method provides an optimum access method to the cloud-based services if one ISP suffers loss or latency?

A. Cloud onRamp gateway site

B. Cloud onRamp SWG

C. Cloud onRamp

D. Cloud onRamp SaaS

Correct Answer: D

Cloud OnRamp gateway site is only one of a few methods to optimise SaaS connectivity within a SDWAN implementation. The overarching solution is 'Cloud OnRamp SaaS'. With the options provided D is the most accurate answer

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/cloudonramp/vedge-20-x/cloud-onramp-book-vedge/cor-saas.html#common-scenarios-cor-saas-b>

QUESTION 10

A customer migrates from a traditional Layer 2 data center network into a new SDN-based spine-and-leaf VXLAN EVPN data center within the same location. The networks are joined to enable host migration at Layer 2.

What is the final migration step after hosts have physically migrated to have traffic flowing through the new network without changing any host configuration?

A. Shut down legacy Layer 3 SVIs, clear ARP caches on all hosts being migrated and then configure the legacy VRRP address onto new VXLAN core switches

B. Increase VRRP priorities on new infrastructure over legacy VRRP values, then shut down legacy SVIs

C. Shut down legacy infrastructure to allow VXLAN gateways to become active

D. Shut down legacy Layer 3 SVIs and activate new preconfigured Layer 3 SVIs on VXLAN

Correct Answer: D

**QUESTION 11**

Which two protocols are used by SDN controllers to communicate with switches and routers? (Choose two)

- A. OpenFlash
- B. OpenFlow
- C. NetFlash
- D. Open vSwitch Database
- E. NetFlow

Correct Answer: BD

QUESTION 12

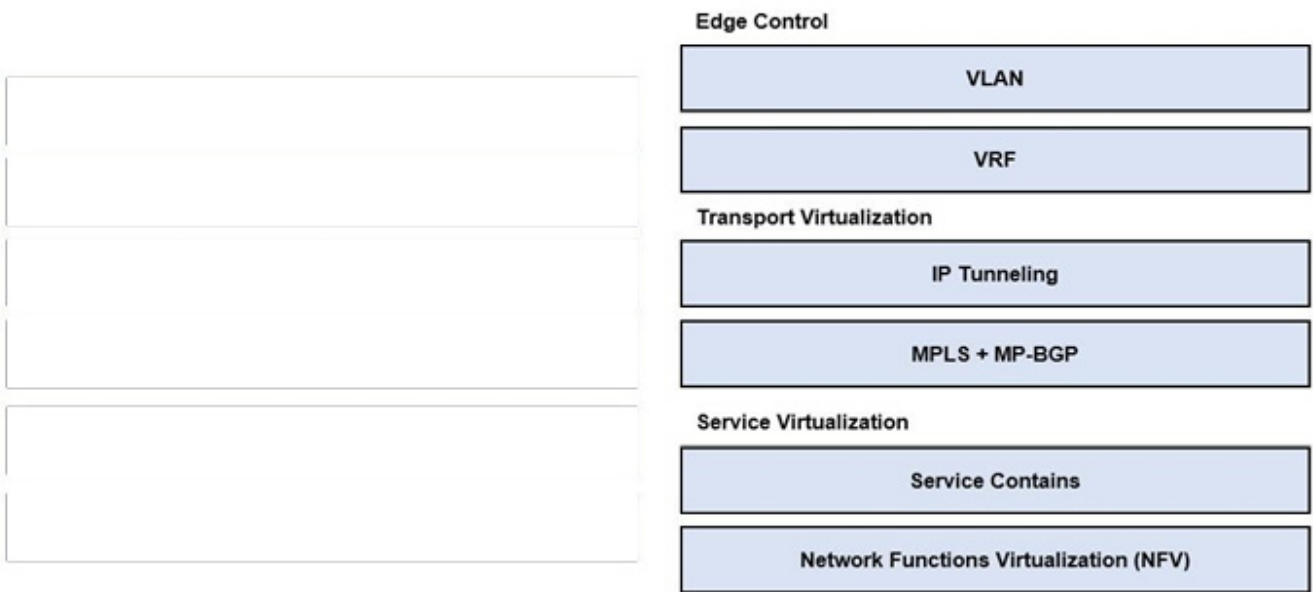
DRAG DROP

Drag and drop the end-to-end network virtualization elements from the left onto the correct network areas on the right.

Select and Place:

	Edge Control
<div>Network Functions Virtualization (NFV)</div>	<div>option A</div>
<div>IP Tunneling</div>	<div>option B</div>
	Transport Virtualization
<div>VRF</div>	<div>option A</div>
<div>MPLS + MP-BGP</div>	<div>option B</div>
	Service Virtualization
<div>VLAN</div>	<div>option A</div>
<div>Service Contains</div>	<div>option B</div>

Correct Answer:

**QUESTION 13**

Which BGP feature provides fast convergence?

- A. BGP PIC
- B. BGP-EVPN
- C. BGP FlowSpec
- D. BGP-LS

Correct Answer: A

Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-3s/asr903/17-1-1/b-irg-xe-17-1-asr903/b-irg-xe-17-1-asr903_chapter_01.pdf

QUESTION 14

DRAG DROP

Drag and drop the multicast protocols from the left onto the current design situation on the right.

Select and Place:



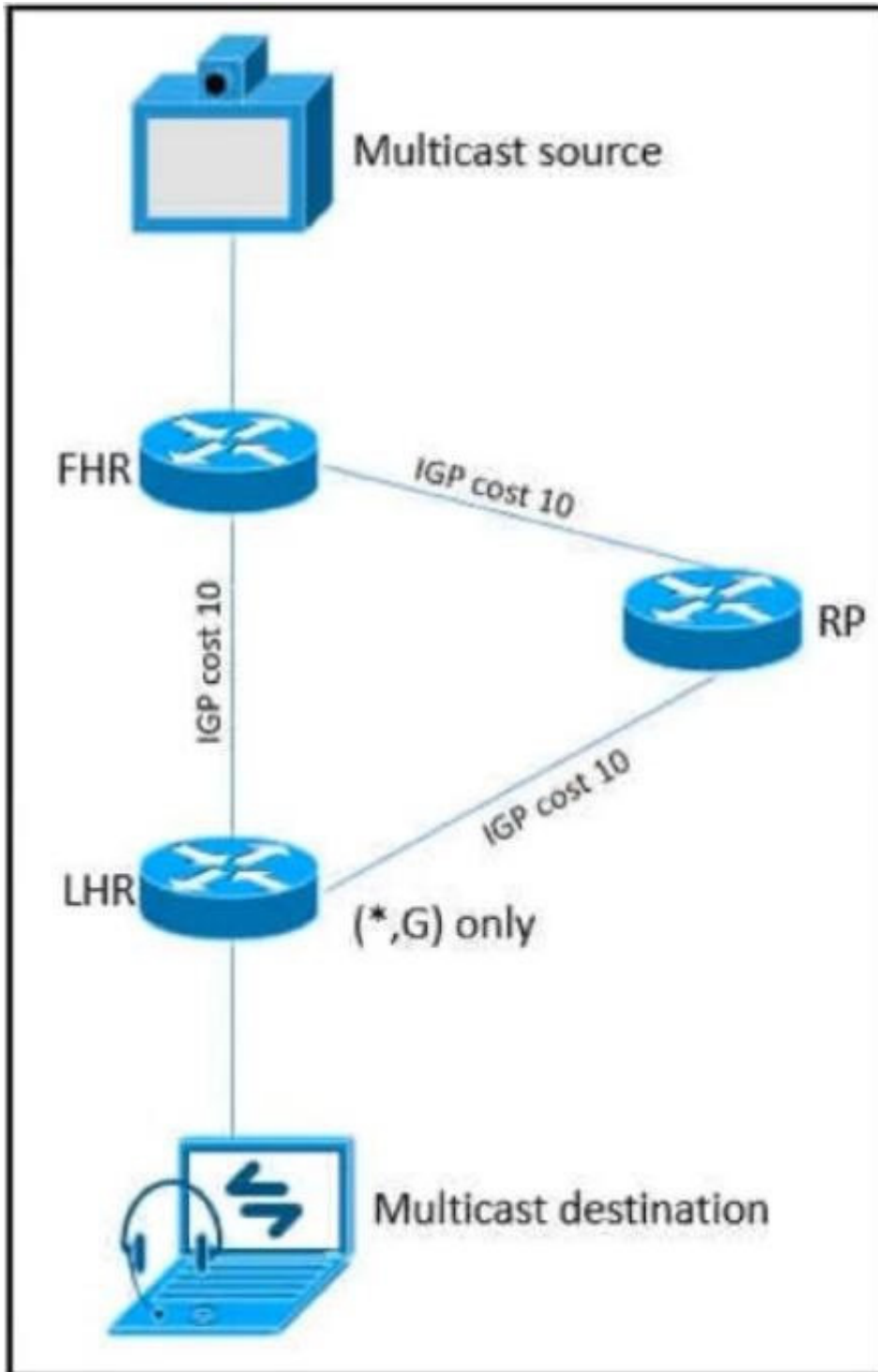
PIM-SM, SSM, BIDIR	IPv4 Group Management
PIM, PIM-SM, SSM, BIDIR	IPv4 Forwarding
IGMP	IPv4 Interdomain Source Discovery
MSDP	IPv6 Group Management
MLD	IPv6 Forwarding

Correct Answer:

	IGMP
	PIM-SM, SSM, BIDIR
	MSDP
	MLD
	PIM, PIM-SM, SSM, BIDIR

QUESTION 15

Refer to the exhibit.



As part of a redesign project, you must predict multicast behavior. What happens to the multicast traffic received on the shared tree (*,G), if it is received on the LHR interface indicated*?

- A. It is dropped due to an unsuccessful RPF check against the multicast source
- B. It is switched give that no RPF check is performed
- C. It is switched due to a successful RPF check against the routing table
- D. It is dropped due to an unsuccessful RPF check against the multicast receiver.



Correct Answer: C

<https://www.cisco.com/c/en/us/support/docs/ip/ip-multicast/16450-mcastguide0.html> When a multicast packet arrives on an interface, the RPF process checks to ensure that this incoming interface is the outgoing interface used by unicast routing in order to reach the source of the multicast packet. This RPF check process prevents loops. Multicast routing does not forward a packet unless the source of the packet passes a RPF check. Once a packet passes this RPF check, multicast routing forwards the packet based only upon the destination address.

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