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QUESTION NO: 1

An enterprise campus is adopting a network virtualization design solution with these requirements

☐ It must include the ability to virtualize the data plane and control plane by using VLANs and VRFs

☐ It must maintain end-to-end logical path transport separation across the network

☐ resources available grouped at the access edge

Which two primary models can this network virtualization design be categorized? (Choose two)

A. Path isolation

B. Session isolation

C. Group virtualization

D. Services virtualization

E. Edge isolation

ANSWER: A D

QUESTION NO: 2

A network architect must redesign a service provider edge, where multiservice and multitenant PEs are currently present. Which design feature should be minimized in the new design to achieve reliability?

A. bridging

B. fate sharing

C. redundancy

D. unicast overlay routing

ANSWER: B

QUESTION NO: 3

Software-defined networking architecture is used for cost-effective, adaptable, and easily manageable applications. In which two software-defined networks is SDN commonly used? (Choose two.)

A. wide area network

B. mobile network

C. metro network

D. application network

E. control network

ANSWER: A E

QUESTION NO: 4 - (DRAG DROP)

An enterprise wants to migrate an on-premises network to a cloud network, and the design team is finalizing the overall migration process. Drag and drop the options from the left into the correct order on the right.

Identify the right applications and portfolio for cloud migration and cloud viability.	step 1
Maintain data integrity and operational continuity.	step 2
Adopt end-to-end approach and transition workloads to the cloud environment.	step 3
Develop cloud strategy and ensure alignment with business requirements.	step 4
Secure the cloud by setting up a secure cloud environment based on the workload requirements.	step 5
Monitor and manage cloud-based systems, including customer services.	step 6

ANSWER:

Identify the right applications and portfolio for cloud migration and cloud viability.	Develop cloud strategy and ensure alignment with business requirements.
Maintain data integrity and operational continuity.	Identify the right applications and portfolio for cloud migration and cloud viability.
Adopt end-to-end approach and transition workloads to the cloud environment.	Secure the cloud by setting up a secure cloud environment based on the workload requirements.
Develop cloud strategy and ensure alignment with business requirements.	Adopt end-to-end approach and transition workloads to the cloud environment.
Secure the cloud by setting up a secure cloud environment based on the workload requirements.	Monitor and manage cloud-based systems, including customer services.
Monitor and manage cloud-based systems, including customer services.	Maintain data integrity and operational continuity.

Explanation:

Develop cloud strategy and ensure alignment with business requirements.
Identify the right applications and portfolio for cloud migration and cloud viability.
Secure the cloud by setting up a secure cloud environment based on the workload requirements.
Adopt end-to-end approach and transition workloads to the cloud environment.
Monitor and manage cloud-based systems, including customer services.
Maintain data integrity and operational continuity.

QUESTION NO: 5

Refer to the table.

CONNECTIVITY	CAPEX	OPEX ANNUAL	INSTALLATION FEE	TERM
DWDM over dark fiber	$250,000	$100,000	$30,000	60 months
CWDM over dark fiber	$150,000	$100,000	$25,000	60 months
MPLS	$50,000	$150,000	$75,000	12 months
Metro Ethernet	$45,000	$125,000	$5,000	36 months

A customer investigates connectivity options for a DCI between two production data centers. The solution must provide dual 10G connections between locations with no single points of failure for Day 1 operations. It must also include an option to scale for up to 20 resilient connections in the second year to accommodate isolated SAN over IP and isolated, dedicated replication IP circuits. All connectivity methods are duplex 10 Gbps. Which transport technology costs the least over two years, in the scenario?

A. Metro Ethernet

B. DWDM

C. CWDM

D. MPLS

ANSWER: B

QUESTION NO: 6

Company XYZ has two routing domains in their network, EIGRP and OSPF. The company wants to provide full reachability between the two domains by implementing redistribution on a router running both protocols. They need to design the redistribution in a way that the OSPF routers will see link costs added to external routes. How must the redistribution strategy be designed for this network?

A. Redistribute using metric type 2 into OSPF.

B. Redistribute using metric type 1 into OSPF.

C. Redistribute using metric type 1 into EIGRP.

D. Redistribute using metric type 2 into EIGRP.

ANSWER: B

Explanation:

https://www.ciscopress.com/articles/article.asp?p=27573&seqNum=4#:~:text=Routes%20are%20redistributed%20in%20OSPF,shown%20in%20Figure%2014%2D2.

QUESTION NO: 7

Which three tools are used for ongoing monitoring and maintenance of a voice and video environment? (Choose three.)

A. flow-based analysis to measure bandwidth mix of applications and their flows

B. call management analysis to identify network convergence-related failures

C. call management analysis to identify CAC failures and call quality issues

D. active monitoring via synthetic probes to measure loss, latency, and jitter

E. passive monitoring via synthetic probes to measure loss, latency, and jitter

F. flow-based analysis with PTP time-stamping to measure loss, latency, and jitter

ANSWER: A C D

QUESTION NO: 8

Company XYZ asks for design recommendations for Layer 2 redundancy. The company wants to prioritize fast convergence and resiliency elements. In the design. Which two technologies are recommended? (Choose two.)

A. Design MLAG/MC-LAG into the network wherever possible.

B. Configure DHCP snooping on the switches.

C. Use root guard.

D. Use BPDU guard.

E. Use UniDirectional Link Detection.

ANSWER: A E

QUESTION NO: 9

Your network operations team is deploying Access Control Lists (ACLs) across your Internet gateways They wish to place an ACL inbound on the Internet gateway interface facing the core network (the "trusted" interface). Which IP address would the ACL need for traffic sourced from the inside interface, to match the source address of the traffic?

A. inside global

B. outside global

C. inside local

D. outside local

ANSWER: C

QUESTION NO: 10

Which three items do you recommend for control plane hardening of an infrastructure device? (Choose three.)

A. redundant AAA servers

B. Control Plane Policing

C. warning banners

D. to enable unused .services

E. SNMPv3

F. routing protocol authentication

ANSWER: B E F

QUESTION NO: 11

You are designing an Out of Band Cisco Network Admission Control. Layer 3 Real-IP Gateway deployment for a customer Which VLAN must be trunked back to the Clean Access Server from the access switch?

A. authentication VLAN

B. user VLAN

C. untrusted VLAN

D. management VLAN

ANSWER: D

QUESTION NO: 12

A European government passport agency considers upgrading its IT systems to increase performance and workload flexibility in response to constantly changing requirements. The budget manager wants to reduce capital expenses and IT staff and must adopt the lowest-cost technology. Which technology choice is suitable?

A. on premises

B. private cloud

C. public cloud

D. hybrid cloud

ANSWER: B

QUESTION NO: 13

Which relationship between IBGP and the underlying physical topology is true?

A. iBGP full mesh requirement does not dictate any specific network topology.

B. iBGP can worn only on a ring network topology with a link-state protocol like OSPF or IS-IS

C. iBGP full mesh requires an underlying fully meshed network topology.

D. iBGP does not work on a ring network topology even with an underlying IGP.

ANSWER: A

Explanation:

iBGP peers can be multiple hops away. not like eBGP that needs direct connection (or ebgp-multihop defined). thus, only IP connectivity between two peers is required for an adjacency to form.
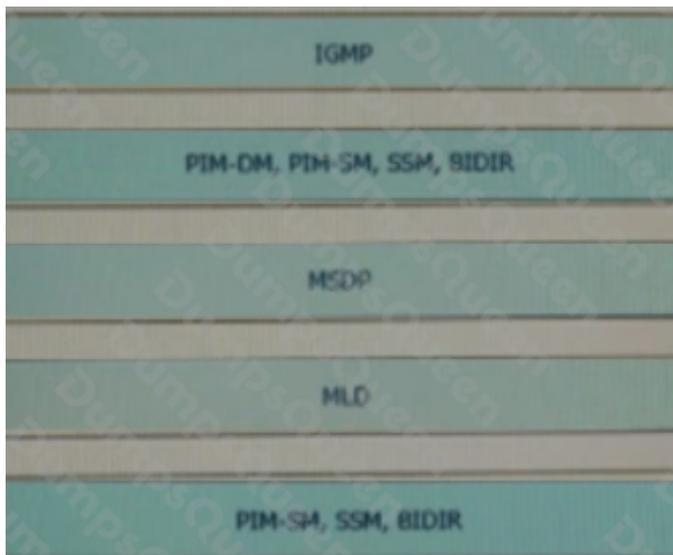
QUESTION NO: 14 - (DRAG DROP)

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

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

ANSWER:

Explanation:

IPv4:

Host Registration - IGMP

Router Registration - PIM-DM, PIM-SM, SSM, BIDIR

Inter-Domain Source Discovery - MSDP

IPv6:

Host Registration - MLD

Router Registration - PIM-SM, SSM, BIDIR

QUESTION NO: 15

Which two pain points are the most common for container technology adoption? (Choose two)

A. Performance

B. Security

C. Cost

D. Container deployment

E. Skilled staff

F. Compliance

ANSWER: D E