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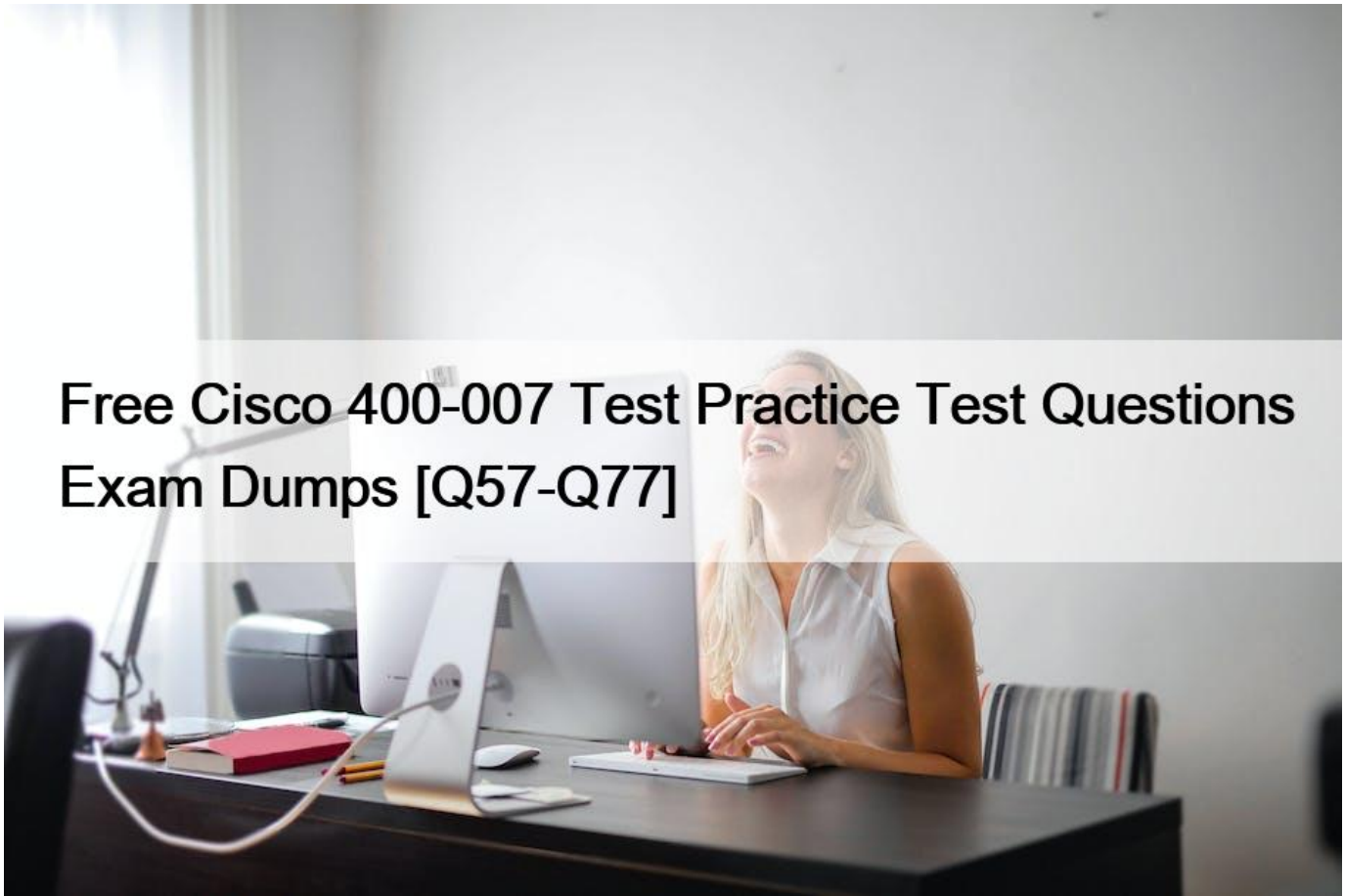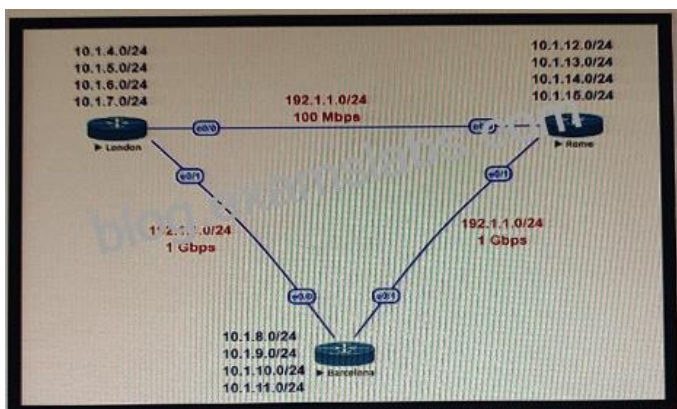

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**QUESTION 57**

Refer to the exhibit.

This network is running OSPF as the routing protocol. The internal networks are being advertised in OSPF London and Rome are using the direct link to reach each other although the transfer rates are better via Barcelona Which OSPF design change allows OSPF to calculate the proper costs?

* Change the OSPF reference bandwidth to accommodate faster links.
* Filter the routes on the link between London and Rome
* Change the interface bandwidth on all the links.
* Implement OSPF summarisation to fix the issue

QUESTION 58

Refer to the exhibit.
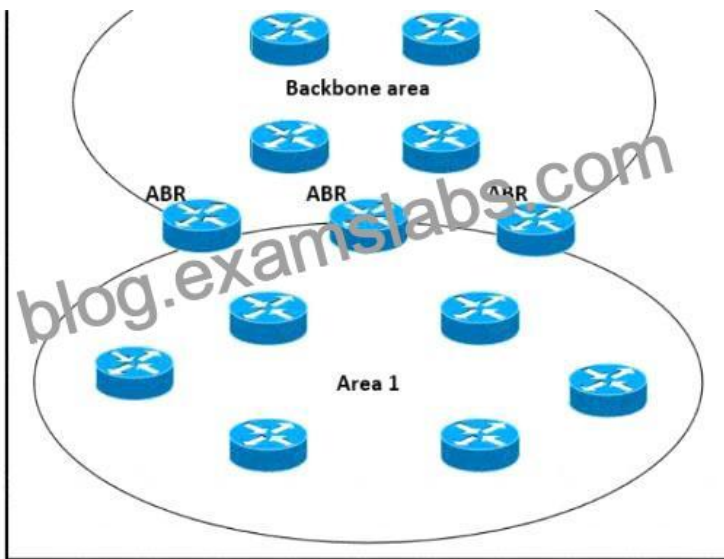
Which impact of using three or more ABRs between the backbone area and area 1 is true?

* In a large-scale network LSA replication by all ABRs can cause serious scalability issues
* Multiple ABRs reduce the CPU processing on each A6R due to splitting prefix advertisement
* In a large-scale network multiple ABRs can create microloops.
* Prefixes from the non-backbone area are advertised by one ABR to the backbone

QUESTION 59

Refer to the exhibit.
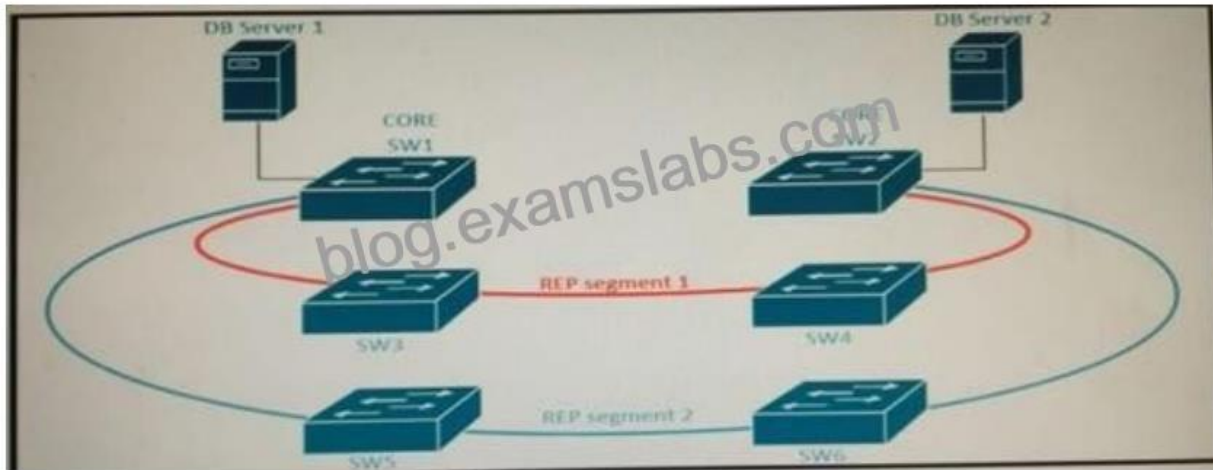
A new high availability DB sever cluster is installed in the network.

These two servers require high bandwidth and low latency Layer 2 connectivity for database replication.

Which solution supports these requirements?
* Add two new links between SW1 and SW2 configured as LACP trunk with STP
* Add secondary links to REP segments 1 and 2
* Add two new links between SW1 and SW2 configured as REP segment 3
* Add two new links between SW1 and SW2 configured as REP segments 1 and 2 respectively

QUESTION 60

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?
* on premises
* private cloud
* public cloud
* hybrid cloud

QUESTION 61

What are two key design principles when using a hierarchical core-distribution-access network model? (Choose two)
* A hierarchical network design model aids fault isolation
* The core layer is designed first, followed by the distribution layer and then the access layer
* The core layer provides server access in a small campus.
* A hierarchical network design facilitates changes
* The core layer controls access to resources for security

QUESTION 62

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?

* Metro Ethernet
* DWDM
* CWDM
* MPLS

QUESTION 63

Which network management framework can be used to develop a network architecture that contains business requirements analysis, gap analysis, and network diagrams as artifacts to be used for design and implementation later?
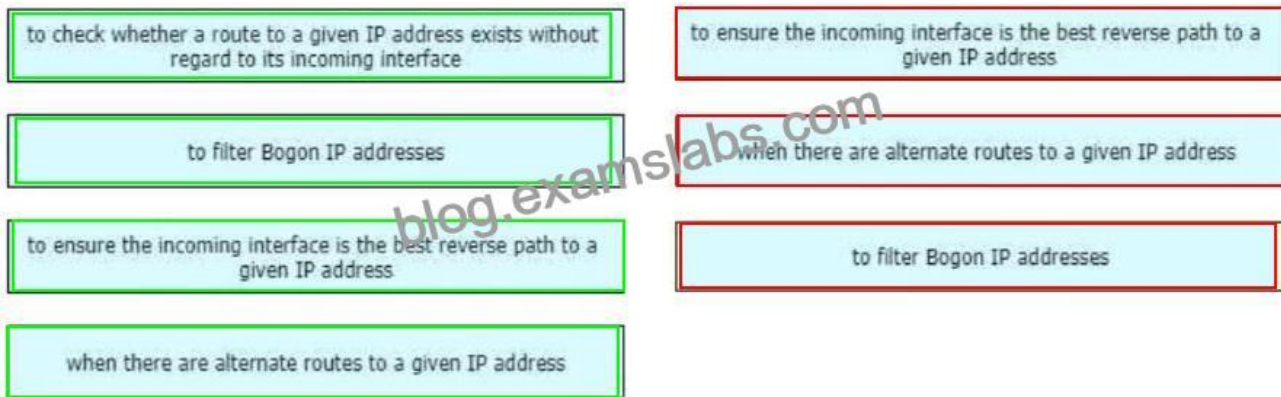
* TOGAF
* ITIL
* FCAPS
* Cobit

QUESTION 64

Which statement about hot-potato routing architecture design is true?

* Hot-potato routing is the preferred architecture when connecting to content providers
* Hop-potato keeps traffic under the control of the network administrator for longer
* OSPF uses hot-potato routing if all ASBRs use the same value for the external metric
* Hot-potato routing is prone to misconfiguration as well as poor coordination between two networks

QUESTION 65

Drag and drop the design use cases from the left onto the correct uRPF techniques used to prevent spoofing attacks Not all options are used.

to check whether a route to a given IP address exists without regard to its incoming interface	strict mode
to filter Bogon IP addresses	feasible mode
to ensure the incoming interface is the best reverse path to a given IP address	loose mode
when there are alternate routes to a given IP address	

to check whether a route to a given IP address exists without regard to its incoming interface	to ensure the incoming interface is the best reverse path to a given IP address
to filter Bogon IP addresses	when there are alternate routes to a given IP address
to ensure the incoming interface is the best reverse path to a given IP address	to filter Bogon IP addresses
when there are alternate routes to a given IP address	

QUESTION 66

When consumers that leverage laaS reach 100% resource capacity, what can be used to redirect the overflow of traffic to the public cloud so there is no disruption to service?

* cloud policing
* cloud spill
* cloud bursting
* cloud shaping

QUESTION 67

An enterprise has identified these causes for inefficient CAPEX spending:

* CAPEX planning is driven by technology and not by business objectives.

* The CAPEX planning team lacks the data it needs to perform due diligence tasks.

* The organizational structure lacks sufficient accountability and incentives.

Which corporate cultural change contributes to improving the effectiveness of CAPEX spending?
* Build a financial control function that delivers high-quality reports on operational expenses for business insight and financial reporting.
* CxO-level staff must have a full technical understanding but the should not trust their technical leaders fully.
* Adopt new organizational models that promote real accountability for ROI. not just revenue. EBITDA, and cash.
* Marketing and product management divisions must reduce their CAPEX budgets significantly to drive the change.

QUESTION 68

Which mechanism provides Layer 2 fault isolation between data centers?
* fabric path
* OTL
* advanced VPLS
* LISP
* TRILL

QUESTION 69

Which two control plane policer designs must be considered to achieve high availability? (Choose two.)

* Control plane policers are enforced in hardware to protect the software path, but they are hardware platform dependent in terms of classification ability.
* Control plane policers are really needed only on externally facing devices.
* Control plane policers can cause the network management systems to create false alarms.
* Control plane policers must be processed before a forwarding decision is made.
* Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence.

QUESTION 70

Company XYZ is running BGP as their routing protocol. An external design consultant recommends that TCP path MTU discovery be enabled. Which effect will this have on the network?

* It will enhance the performance of TCP-based applications.
* It will increase the convergence time.
* It will improve the convergence time.
* It will create a loop free path.

QUESTION 71

Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services Is true?

* first-hop router registration to the RP
* multicast client registration to the RP
* multicast source registration to the RP
* transport of all IPv6 multicast traffic

QUESTION 72

Which two actions ensure voice quality in a branch location with a low-speed, high-latency WAN connection? (Choose two.)

* Increase WAN bandwidth
* Increase memory branch switch.
* Fragment data packets.
* Replace any electrical links with optical links
* Prioritize voice packets

QUESTION 73

Organizations that embrace Zero Trust initiatives ranging from business policies to technology infrastructure can reap business and security benefits. Which two domains should be covered under Zero Trust initiatives?

(Choose two)

* workload
* work domain
* workplace
* workgroup
* workspace

QUESTION 74

The network team in XYZ Corp wants to modernize their infrastructure and is evaluating an implementation and migration plan to

allow integration MPLS-based, Layer 2 Ethernet services managed by a service provider to connect branches and remote offices. To decrease OpEx and improve response times when network components fail, XYZ Corp decided to acquire and deploy new routers. The network currently is operated over E1 leased lines (2 Mbps) with a managed CE service provided by the telco.

Drag and drop the implementation steps from the left onto the corresponding targets on the right in the correct order.

Activation of the MPLS-based L2VPN service.	
Monitor performance of the Ethernet service for a predefined period of time.	
Decomission E1 leased line.	
Deployment of new branch routers.	
Test and validation of SLA parameters in the L2VPN.	
Migrate E1 to the new Ethernet service.	

Activation of the MPLS-based L2VPN service.	Deploymen
Monitor performance of the Ethernet service for a predefined period of time.	Activation of the
Decomission E1 leased line.	Test and validation
Deployment of new branch routers.	Migrate E1 to
Test and validation of SLA parameters in the L2VPN.	Monitor performa predef
Migrate E1 to the new Ethernet service.	Decomis

QUESTION 75

Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services Is true?
* first-hop router registration to the RP
* multicast client registration to the RP
* multicast source registration to the RP
* transport of all IPv6 multicast traffic

QUESTION 76

Which two actions must be taken when assessing an existing wireless network implementation for its readiness to support voice traffic? (Choose two.)
* Check for high roaming delay.
* Check for uniform radio coverage across the floors.
* Check for high channel utilization.
* Check for latency over wireless.
* Identify frequent TX power changes.
https://community.cisco.com/t5/wireless/channel-utilization/td-p/2716667

QUESTION 77

Agile and Waterfall are two popular methods for organizing projects. What describes any Agile network design development

process?

* working design over comprehensive documentation

* contract negotiation over customer collaboration

* following a plan over responding to change

* processes and tools over individuals and interactions over time

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