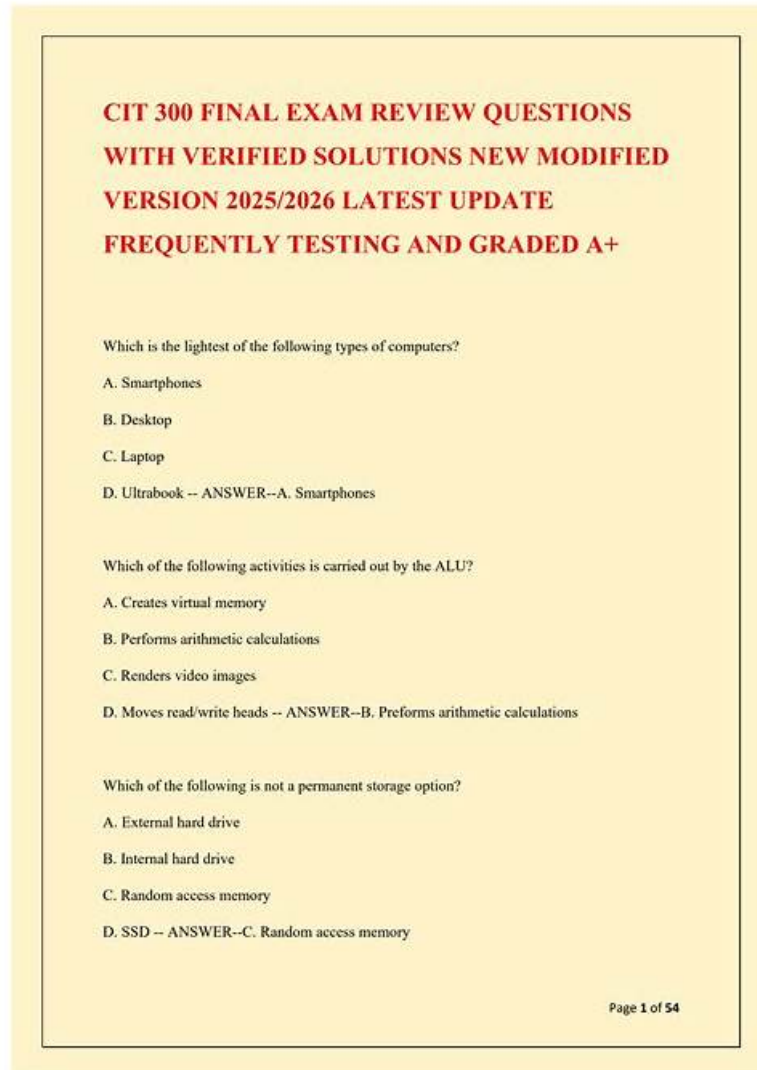


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Cisco 300-610 Exam Topics:

Section	Weight	Objectives
Network Design	35%	- Evaluate options for Layer 2 connectivity • Endpoint mobility • Redundancy/high availability • Convergence • Services insertion - Evaluate options for Layer 3 connectivity • IP mobility • Redundancy / high availability (graceful restart, NSF) • Convergence • Services insertion (load balancing, security) - Evaluate data center technologies such as vPC/vPC+ - Evaluate options for interconnecting data centers such as VXLAN EVPN and OTV - Evaluate options for device and routing virtualization • VDC • VRF (standard, VXLAN EVPN tenant) - Evaluate in-band and out-of-band options for management - Evaluate redundancy options such as active/active and disaster recovery site
Automation Design	20%	- Evaluate options for network orchestration and automation • DCNM • Intersight • NX-API • Model-driven programmability • Ansible • Puppet • Python - Evaluate options for compute orchestration and automation • Service profile templates • vNIC templates • vHBA templates • Global policies vs. local policies

Compute Design	25%	- Evaluate options for Ethernet connectivity • Redundancy / high availability • Bandwidth (oversubscription) • Fabric interconnect operation mode (switch mode, end host mode) - Evaluate options for storage connectivity • Bandwidth (port-channels, oversubscription) • Fabric interconnect operation mode (switch mode, end host mode) • Direct-attached storage (appliance, FC storage, and FCoE ports) - Evaluate options for network device virtualization in a data center (Cisco VIC adapters) • Number of interfaces vs. IOM uplinks • vCon placement policies • Ethernet adaptor policies • Fibre Channel adapter policies - Evaluate options for hyperconverged infrastructure • Cluster mode • HX for virtual server • Desktop virtualization
Storage Network Design	20%	- Plan for iSCSI deployment in a data center (Multipathing and addressing schemes) - Evaluate QoS requirements in a data center • Fibre Channel • FCoE • FCIP • iSCSI - Determine FCoE/ Fibre Channel interface • Dedicated and shared mode • Port types • ISL • Oversubscription - Evaluate SAN topology options

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q306-Q311):

NEW QUESTION # 306

An engineer is building a data center network with VXLAN EVPN. The requirement is to use multicast for the broadcast, unknown unicast, and multicast replication.

Which two VNI to multicast group mapping methods must be used to meet these requirements? (Choose two.)

- A. one VNI to one multicast group
- B. many NVE to one multicast group
- C. one NVE to many multicast groups
- D. many VNI to many multicast groups
- E. many VNI to one multicast group

Answer: C,E

NEW QUESTION # 307

Refer to the exhibit. A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during

peak load.

Which action meets this requirement?

```
switch# show interface fc 1/1
fc1/1 is up
Hardware is Fibre Channel, SFP is short wave laser w/o OFC (SN)
Port WWN is 22:01:00:05:30:01:1f:02
Admin port mode is F
snmp traps are enabled
Port mode is F, FCID is 0xec0002
Port vsan is 1
Speed is 4 Gbps
Rate mode is shared
Transmit B2B Credit is 64
Receive B2B Credit is 16
Receive data field Size is 2112
Beacon is turned off
5 minutes input rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
5 minutes output rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
213 frames input, 17311 bytes
0 discards, 0 errors
0 CRC, 0 unknown class
0 too long, 0 too short
332 frames output, 22344 bytes
0 discards, 0 errors
0 input OLS, 0 LRR, 1 NOS, 0 loop inits
1 input OLS, 0 LRR, 0 NOS, 0 loop inits
16 receive B2B credit remaining
64 transmit B2B credit remaining
```

- A. Increase the data field size to 9000 bytes.
- B. Change the port mode to NL.
- C. Change the rate mode to dedicated.
- D. Set Transmit B2B credit to 16.

Answer: C

NEW QUESTION # 308

Drag and Drop Question

Drag and drop the configurations from the left onto the correct policies on the right.

Set the number of queues.
Set the RSS hash value.
Assign each vCon to a physical adapter.
Assign adapter order.

vNIC/vHBA Placement Policy
Ethernet Adapter Policy

Answer:

Explanation:

vNIC/vHBA Placement Policy
Assign each vCon to a physical adapter.
Assign adapter order.
Ethernet Adapter Policy
Set the number of queues.
Set the RSS hash value.

Explanation:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/configuring_network_related_policies.html#task_7F03A03C719A4A44B8ACFAD73AADC73C

NEW QUESTION # 309

A Cisco UCS instance has four interfaces on a UCS VIC. Where on the fabric interconnect does each interface terminate?

- A. virtual interface
- B. port channel
- C. physical port
- D. vPC

Answer: A

Explanation:

Reference: <https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-6300-series-fabric-interconnects/cisco-unified-fabric.pdf>

NEW QUESTION # 310

Refer to the exhibit.

Create vHBA Template

Name :

Description :

Fabric ID : ☒ A ☐ B

Redundancy

Redundancy Type : ☒ No Redundancy ☐ Primary Template ☐ Secondary Template

Select VSAN : default

Template Type : ☒ Initial Template ☐ Updating Template

Max Data Field Size :

WWPN Pool :

QoS Policy :

Pin Group :

Stats Threshold Policy :

Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?

- A. Secondary
- **B. Initial**
- C. Primary
- D. Updating

Answer: B

NEW QUESTION # 311

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