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CCIE Data Center Written Exam

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Topic 1, Cisco Data Center Architecture

QUESTION NO: 1

Which three capabilities make the Cisco Nexus 7010 switch an effective solution for the data center core? (Choose three.)
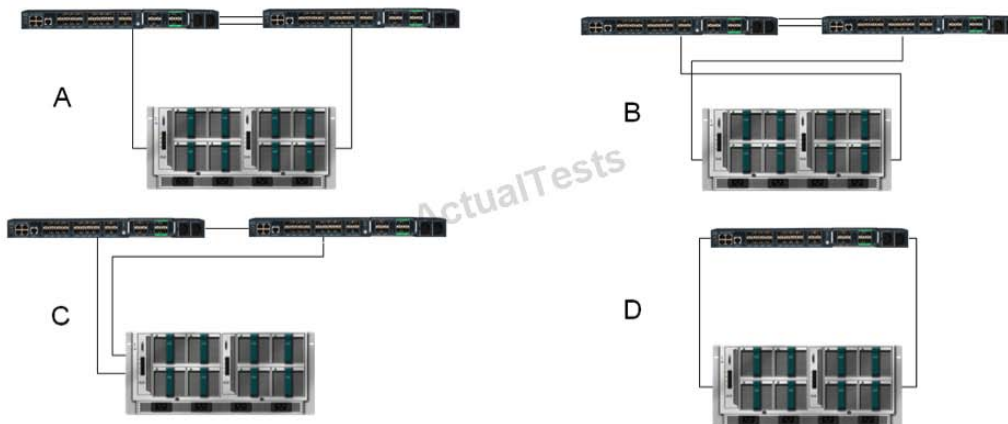
A. virtualization
B. unified I/O
C. support for 48-port Gb/s line card
D. support for Data Center Service Modules
E. high performance
F. high availability

Answer: B,E,F
Explanation:

QUESTION NO: 2

Refer to the exhibit.

Which option is valid for connecting the fabric interconnects to the I/O module?

A. A, B, C, and D are valid.
B. A and B are valid.
C. A, B, and D are valid.
D. Only A is valid.

Answer: B
Explanation:

QUESTION NO: 3

FabricPath brings the benefits of routing protocols to layer 2 network Ethernet environments. What are the advantages of using FabricPath technology? (Choose three.)

A. FabricPath provides MAC address scalability with conversational learning
B. Loop mitigation with TTL in the frame field
C. STPI independence
D. 10 Gbps bandwidth
E. Layer 2 extensions between data centers

Answer: A,B,C
Explanation:

QUESTION NO: 4

Which three concepts influenced the evolution of data centers? (Choose three.)

A. Consolidation
B. Expansion
C. Automation
D. Virtualization
E. Commoditization
F. Economics

Answer: A,C,D
Explanation:

Topic 2, Cisco Data Center Infrastructure—Cisco NX-OS

QUESTION NO: 5

A network administrator has installed an N7K-F248-25XP module into an existing chassis. The module is powered on, but the interfaces are all in VDC0. What is the reason for this?

A. The chassis needs an EPLD upgrade to support the new module type.
B. The default VDC cannot support F2 modules.
C. The interfaces must be allocated into a VDC for F2 modules only.
D. The module has failed GOLD diagnostics, and the switch has isolated the ports to protect the integrity of the system.

Answer: C

Explanation:

QUESTION NO: 6

Which two statements about SAN port channels configured on Cisco Nexus 5000 Series switches are true? (Choose two.)

A. The bring up protocol automatically detects and overrides any misconfiguration.
B. You can manually configure channel groups, or they can be automatically created.
C. Changes in configuration to the SAN port channel interface must also be made to all members of the channel group.
D. The port channel protocol uses the exchange fabric parameters command to communicate across peer ports in an ISL.
E. The port channel protocol ensures that a set of ports is eligible to be part of the same SAN port channel.

Answer: B,E

Explanation:

QUESTION NO: 7

Which statement about SAN port channels configured on Cisco Nexus 5000 Series Switches is true?

A. A single SAN port channel can have both Fibre Channel and virtual Fibre Channel interfaces.
B. SAN port channels can include up to 16 interfaces.
C. SAN port channels distribute traffic across all links in the port channel when source ID and destination ID load balancing are used.
D. The links in SAN port channels can be connected to different sets of switches.
E. The On mode of operation means ports only operate as part of a SAN port channel or remain inactive.

Answer: E

Explanation:

QUESTION NO: 8

Which capabilities are not supported in DCNM device manager?