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Exam : **010-151**

Title : Supporting Cisco Datacenter
Networking Devices (DCTECH)

Vendor : Cisco

Version : DEMO

NO.1 Which method is a TCP/IP-based protocol for establishing and managing connections between IP-based storage devices, hosts, and clients?

- A. FCIP
- B. iFCP
- C. iSCSI
- D. FCoE

Answer: C

NO.2 After installation or replacement of a Cisco UCS C-Series Rack-Mount Server, the host does not boot.

Which four options should be verified? (Choose four.)

- A. Reseat the DIMMs, CPU, and PCI cards.
- B. Check the Cisco IMC for fan faults.
- C. Reseat the mezzanine card connector.
- D. Verify that power supplies are receiving power.
- E. Verify the power source to the equipment.
- F. Check for loose HDD cables.
- G. Check the CPU sockets for bent pins.

Answer: A,D,E,G

NO.3 Which cable is used to access the command-line interface of a Cisco UCS 6120XP Fabric Interconnects?

- A. KVM cable
- B. console cable
- C. Ethernet cable
- D. SFP+ Ethernet transceiver cable

Answer: B

NO.4 Which two statements about PCIe are true? (Choose two.)

- A. The PCIe supports native hot-swap functionality.
- B. You can install a PCI Express x16 adapter into an x4 slot.
- C. The PCIe standard is a bus-based system in which all the devices share the same bidirectional, 32-bit or 64-bit, parallel signal path.
- D. The PCIe 4.0 standard doubles the transfer rate compared to PCIe 5.0.
- E. A link that is composed of four lanes is called an x4 link.

Answer: D,E

NO.5 Which command-line interface mode is best described by this prompt?

Switch (config) #

- A. Local management mode
- B. EXEC mode
- C. Boot mode
- D. Global configuration command mode

Answer: D

NO.6 What are the two layers in the SAN hierarchy? (Choose two.)

- A. Protocol layer
- B. Fabric layer
- C. Connection layer
- D. Switch layer
- E. Storage layer

Answer: B,E

NO.7 Which two blade servers support GPUs? (Choose two.)

- A. UCS B260 M4
- B. UCS B200 M4
- C. UCS B420 M4
- D. UCS B480 M5
- E. UCS B200 M5

Answer: D,E

NO.8 Which two types of information does the show module NX-OS command display? (Choose two.)

- A. Module license information
- B. Module ports type
- C. Module IP address
- D. Module type
- E. Module status

Answer: D,E

Reference:

command/reference/sm_cmd_show.html

NO.9 Which two provide connectivity to Fabric Extenders? (Choose two.)

- A. UCS 6300 series
- B. UCS B-Series Servers
- C. UCS 6400 series
- D. UCS S-Series Storage Servers
- E. UCS E-Series Servers

Answer: A,C

NO.10 Which two form factors are available in the Cisco UCS E-Series Servers? (Choose two.)

- A. EHWIC
- B. PVDM
- C. NIM
- D. VIC
- E. WIC

Answer: D,E

NO.11 Which statement is true about SFP?

- A. SFP modules convert the serial electrical signals to serial analog signals and vice versa.
- B. The small form-factor pluggable (SFP) is a compact, hot-pluggable copper module transceiver.
- C. SFP modules offer a simple and effective way to connect a single network device to a wide variety of fiber cable types.
- D. SFP modules can be classified based on the working voltage and size.

Answer: C

NO.12 Which two statements about Cisco UCS 6454 Fabric Interconnect are true? (Choose two.)

- A. 1-RU 10/25/40/100/200/400 Gigabit Ethernet, FCoE, and Fibre Channel switch offers up to 32 ports.
- B. It hosts and runs Cisco Integrated Management Controller (CIMC).
- C. All Ethernet ports can support FCoE.
- D. Provides the management and communication backbone for the Cisco UCS 5108 Server Chassis and Cisco UCS B-Series Blade Servers only.
- E. Provides both the LAN and SAN connectivity for all servers within its domain.

Answer: C,E

Explanation:

The Cisco UCS 6454 Fabric Interconnect (FI) is a key component in Cisco's Unified Computing System (UCS), providing both LAN and SAN connectivity, along with advanced features like Fibre Channel over Ethernet (FCoE). Let's examine each option in detail:

Option A - 1-RU 10/25/40/100/200/400 Gigabit Ethernet, FCoE, and Fibre Channel switch offers up to 32 ports:

This statement is incorrect. While the Cisco UCS 6454 FI does support a variety of Ethernet speeds (10/25/40/100 Gigabit Ethernet) and FCoE, it actually has 54 ports. Additionally, it is not a 200/400 Gigabit Ethernet switch, as those higher speeds are not supported on this model. Therefore, this statement is not accurate for the UCS 6454.

Option B - It hosts and runs Cisco Integrated Management Controller (CIMC):

This is incorrect. The Cisco UCS 6454 FI does not run the Cisco Integrated Management Controller (CIMC). CIMC is typically used for managing individual servers (such as UCS C-Series standalone servers) and not for Fabric Interconnects, which are managed through UCS Manager (UCSM).

Option C - All Ethernet ports can support FCoE:

Correct. The Cisco UCS 6454 FI supports FCoE on all Ethernet ports, allowing for both LAN and SAN traffic over a unified fabric. This makes it an effective solution for data center environments that want to consolidate storage and network traffic, enhancing flexibility and reducing infrastructure costs.

Option D - Provides the management and communication backbone for the Cisco UCS 5108 Server Chassis and Cisco UCS B-Series Blade Servers only:

This statement is incorrect. While the UCS 6454 FI does indeed provide management and connectivity for the UCS 5108 Server Chassis and B-Series Blade Servers, it also supports UCS C-Series Rack Servers when they are integrated into the UCS environment. Therefore, it is not limited to only the B-Series Blade Servers and UCS 5108 Chassis.

Option E - Provides both the LAN and SAN connectivity for all servers within its domain:

Correct. The UCS 6454 FI provides both LAN and SAN connectivity, acting as a unified fabric solution for servers within the UCS domain. This is a primary function of the Fabric Interconnect, making it a crucial component in simplifying connectivity and management in UCS environments by handling both network and storage traffic.

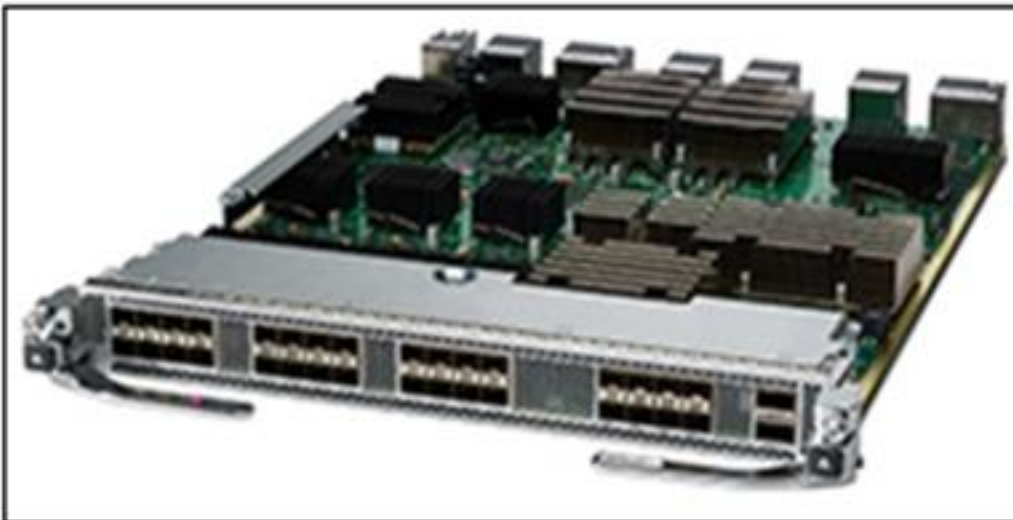
Cisco Datacenter Networking Device Reference:

Cisco UCS 6454 Fabric Interconnect: The UCS 6454 FI supports 10/25/40/100 Gigabit Ethernet and FCoE on all Ethernet ports, providing unified network and storage connectivity for UCS-managed servers.

Cisco UCS Manager (UCSM): Cisco UCSM provides centralized management for all components in a UCS domain, including Fabric Interconnects, B-Series Blade Servers, and C-Series Rack Servers when integrated.

In summary, options C and E are the correct answers. The Cisco UCS 6454 Fabric Interconnect supports FCoE on all Ethernet ports and provides both LAN and SAN connectivity for all servers within its domain, which are essential features for a unified data center fabric.

NO.13 Refer to the exhibit.



What is the name of this Cisco MDS 9700 Series network module?

- A. Cisco MDS 9700 48-port 16-Gbps switching module
- B. Cisco MDS 9700 48-port 32-Gbps Fibre Channel switching module
- C. Cisco MDS 48-Port 10-Gbps Fibre Channel over Ethernet module
- D. Cisco MDS 24-/10-port SAN Extension module

Answer: B

Reference:

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NO.14 Where do you find the model number of a Cisco MDS 9200 Series chassis?

- A. on the top front of the chassis next to the serial number
- B. on the bottom front of the chassis next to the Cisco logo
- C. on the top front of the chassis next to the Cisco logo
- D. on the bottom front of the chassis next to the serial number

Answer: C

NO.15 Which two statements about Cisco UCS S3260 Storage Server are true? (Choose two.)

- A. AMD EPYC 7000 series processors, with up to 32 cores per socket
- B. Up to 1 TB of Intel Optane DC Persistent Memory
- C. It is in a compact 2-RU form factor.
- D. Support for the Cisco 12-G 9460-8i PCIe SAS RAID controller
- E. Massive 840-TB data storage capacity

Answer: D,E

NO.16 A company wants to build a data center infrastructure which can provide up to 99.982% uptime availability per year. Which ANSI/TIA-942 data center tier meets the requirement?

- A. Redundant-distribution site infrastructure
- B. Redundant-capacity component site infrastructure
- C. Concurrently maintainable site infrastructure
- D. Basic site infrastructure

Answer: C

NO.17 Which two statements are true for the Ethernet 802.3 standard? (Choose two.)

- A. An 802.3 Ethernet frame is 68 to 1518 bytes in length.
- B. CSMA/CD eliminates collisions for the switched LAN where multiple collision domains reside.
- C. It defines physical layer and data link layer protocols.
- D. The IEEE 802.3ab standard defines 10 Gigabit Ethernet over unshielded twisted-pair (UTP).
- E. Network layer protocol is carried in the payload field.

Answer: B,C