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DEA-41T1

Associate - PowerEdge Exam

Version 1.0
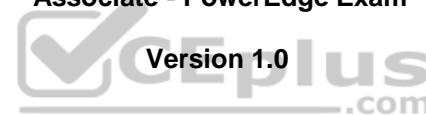
Exam B

QUESTION 1
An administrator is implementing LTO-5 drives in their backup solution. They plan to disable hardware data compression through their backup appliance.

What is the maximum data rate that can be achieved?

A. 80 MB/s
B. 120 MB/sC. 140 MB/s
D. 160 MB/s

Correct Answer: C
Section: (none)

Explanation

Explanation/Reference:

QUESTION 2
A server is experiencing issues with completing POST. The environment does not have a KVM or "Crash cart" available to view where the system is halting.

Which method can an administrator use to determine the first place to start troubleshooting?

A. Run OpenManage Essentials
B. Check rear lights on the server chassis
C. Run Repository managerD. Check iDRAC Post Code

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
What advantage do NVDIMMs have over other server-based memory technologies?

A. Operate at lower voltages to save on power costs.
B. Lower cost per GB of capacity
C. Require less cooling than traditional memory DIMMs
D. Can retain contents even after a power loss

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://topics-cdn.dell.com/pdf/poweredge-r740_users-guide3_en-us.pdf

QUESTION 4 What is an accurate statement in reference to
software RAID?

A. Software RAID does not have any data integrity issues
B. Software RAID requires a hardware license
C. Software RAID is an additional cost
D. Software RAID uses CPU resources
Correct Answer: D

Section: (none)
Explanation

Explanation/Reference:

QUESTION 5 What is a consideration for a hardware administrator who is physically installing multiple servers
into a rack?

A. Observe load requirements specified in documentation for the switch.
B. Avoid unevenly loading the rack and creating a hazard.
C. Ensure that the server can connect to Windows updates
D. Ensure that the associated UPS can also power the top-of-rack switch.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6 Where can a history of change related to hardware components for a managed
system be found?

A. Windows Event Logs
B. Raid Controller Logs
C. Lifecycle Logs
D. System Event Logs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/article/pk/en/pkbiz1/sln305828/poweredge-how-to-generate-servers-logs-with-the-idrac-?lang=en

QUESTION 7 What types of data transfer are used by Dell EMC servers to connect mass
storage devices?

A. USB, Ethernet, SSD, and CSI
B. SAS, USB, Ethernet, and SSID
C. SSID, CSI, USB, and SAS
D. Ethernet, SSID, CSI, and SAS

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8 Which RAID level is recommended for high speed data access and maximum
storage capacity?

A. RAID 0
B. RAID 1
C. RAID 5

D. RAID 6

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9 What is the
Dell EMC iSM?

A. Agent that expands iDRAC management functionality into the host operating system
B. Program that is installed and provides one-to-one systems management functionality
C. Systems management console that simplifies monitoring of multiple Dell EMC servers
D. Out-of-band management platform on Dell EMC servers

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/article/pk/en/pkbsd1/sln310557/dell-emc-idrac-service-module?lang=en

QUESTION 10 Which protocol resolves IP addresses into
MAC addresses?

A. ARP
B. DHCP
C. DNS
D. STP

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.globalknowledge.com/blog/2009/08/28/address-resolution-protocol-arp/

QUESTION 11 For which use case is Dell EMC OpenManage Essentials recommended
for installation?

A. Comprehensive, one-to-one systems management solution for remote or local servers
B. Management console for one-to-many monitoring of Dell EMC infrastructure
C. Operation of hardware while iDRAC is non-functional
D. Management and integration of operating system updates across an entire environment

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/home/pk/en/pkbsd1/drivers/driversdetails?driverid=3mrw4

QUESTION 12
What occurs during the Data Wiping process?
A. Destroys CDs and DVDs by pulverizing and cross-cut shredding
B. Disposes sensitive data using file detection, disk formatting, and file encryption

C. Temporarily removes data from a readwrite medium so that it can no longer be read

D. Logically connects storage media to a bulk-wiping device

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/article/pk/en/pkbsd1/sln300245/using-the-dell-bios-data-wipe-function-for-optiplex-precision-and-latitude-systems-built-after-november-2015?lang=en

QUESTION 13
What should an administrator review, prior to deploying an operating system (OS), to confirm there are no hardware incompatibilities with the desired OS?

A. iDRAC SEL

B. HCL

C. BPA

D. LCC Log

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14 What is the purpose of
the DNS role?

A. Send out emails from a server to a client

B. Translate domain names into IP address

C. transfer computer files between a client and a server

D. Distribute and update dynamic IP address

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15 What does well organized documentation help a system
administrator improve?

A. Cost of running a server

B. Visibility of a system during an audit.

C. Processor efficiency

D. Recovery time in the event of a failure

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
Which advanced feature does a Dell EMC energy-smart power supply offer?

A. Provides thermal management of the supply
B. Reverses airflow to meet data center requirements
C. Throttles output to power-heavy components
D. Ability to update firmware without the need for downtime

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
What is commonly used by a system administrator to prevent electrostatic discharge when working on components inside a Dell EMC PowerEdge server?

A. Uninterruptible Power Supply
B. Voltage Regulator
C. Anti-static wrist strap
D. Non anti-static floor mat

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://topics-cdn.dell.com/pdf/poweredge-c6320p_users-guide15_en-us.pdf

QUESTION 18
A system administrator wants to view the results of the Best Practices Analyzer (BPA) for their local server. Which Windows built-in tool can they use to accomplish this?

A. Activity Monitor
B. Server Manager-Local Server
C. Resource Monitor
D. Security Compliance Manager

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 19 What is a key characteristic of a Type
2 hypervisor?

A. Runs directly on the host with direct access to the hardware
B. Runs directly on the host without direct access to the hardware
C. Runs on an operating system installed on the host with direct access to the hardware
D. Runs on an operating system installed on the host without direct access to the hardware

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://searchservervirtualization.techtarget.com/definition/hosted-hypervisor-Type-2-hypervisor

QUESTION 20 What distinguishes server CPUs
from client CPUs?

A. Server CPUs have no overlocking features; client CPUs do have them
B. Server CPUs use identical socket types, client CPUs use multiple socket types
C. Server CPUs frequently have fewer cores and more processing power than client CPUs
D. Servers tend to have fewer CPUs installed than clients

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.quora.com/How-can-you-describe-the-difference-between-server-CPU-and-desktop-CPU

QUESTION 21 What is the maximum number of iDRAC Virtual Console sessions that can be run
simultaneously?

A. 5
B. 5
C. 6
D. 7

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/manuals/us/en/04/poweredge-r740xd/idrac_3.00.00.00_ug/configuring-and-using-virtual-console?guid=guid-1607d2bc-0ed1-4487-84e1-272357a474ae&lang=en-us

QUESTION 22 Which dual-level RAID configuration is combined to configure RAID 10 on
a single array?

A. RAID 0 RAID 1, mirrored and parity
B. RAID 0 RAID 1, mirrored and stripedC. RAID 1 RAID 0, parity and striped
D. RAID 0 RAID 1, striped and mirrored

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
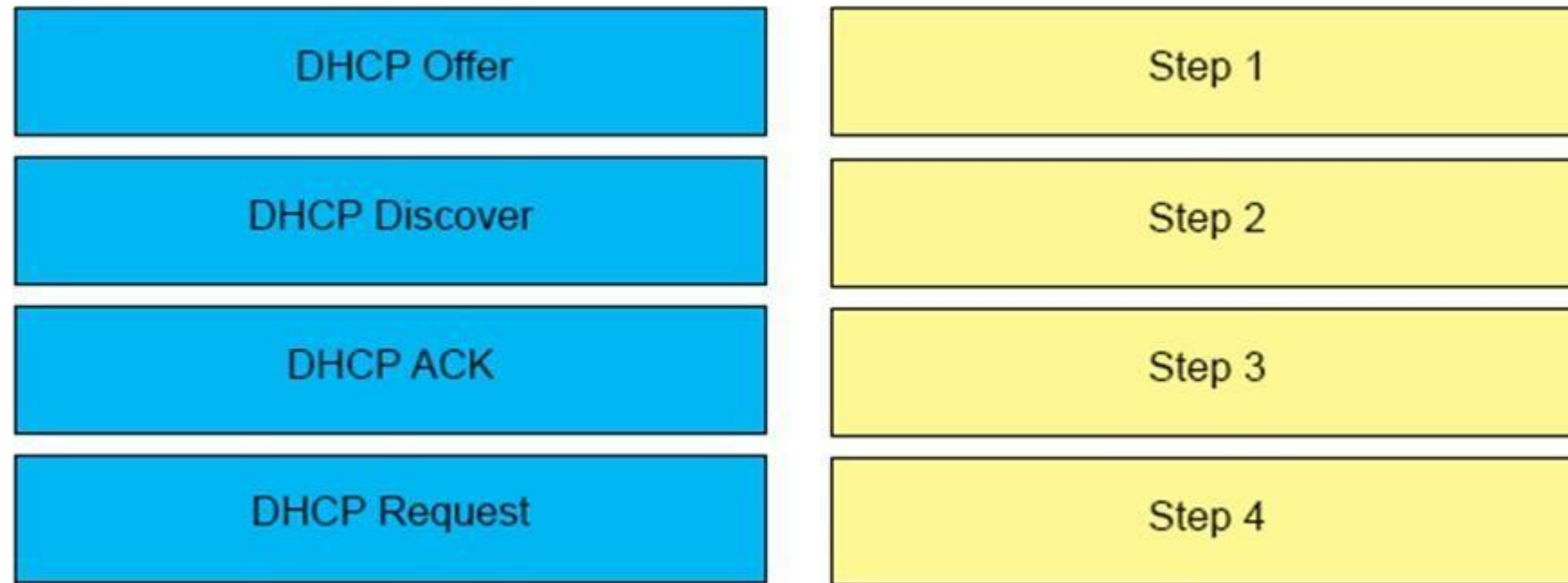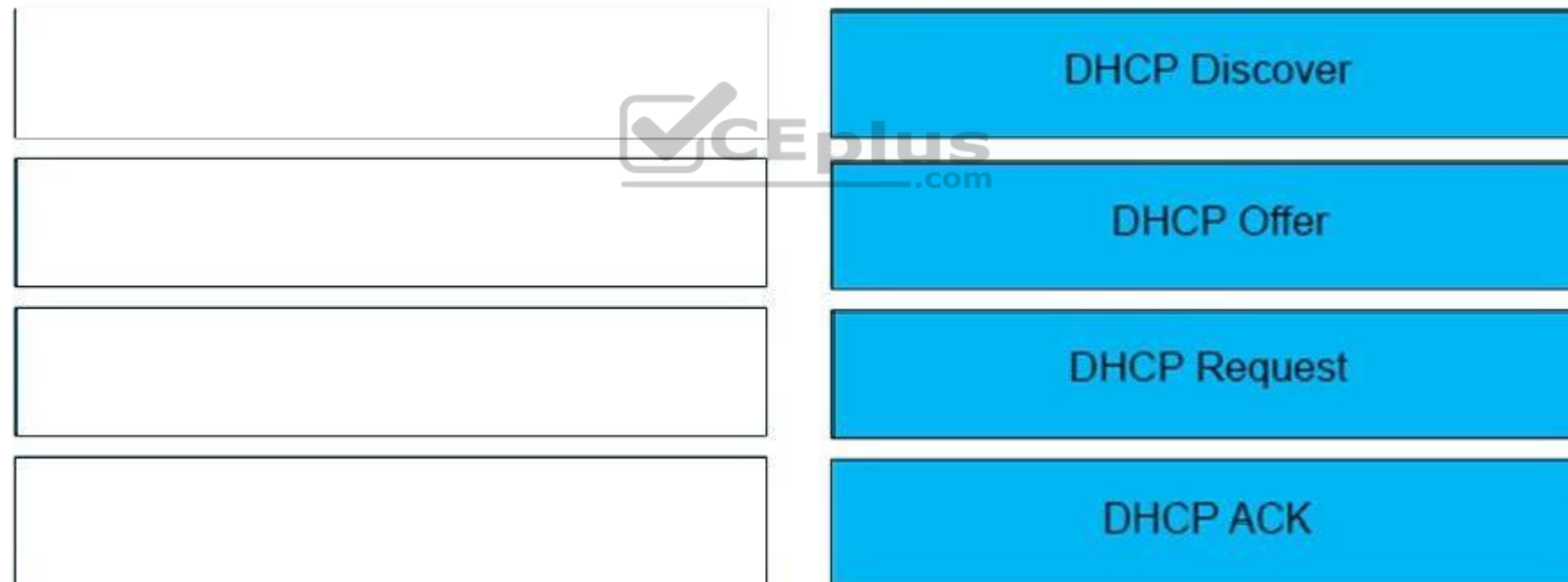Reference: https://www.thegeekstuff.com/2010/08/raid-levels-tutorial

QUESTION 23
DRAG DROP

What is the correct sequence of message exchanges between a DHCP server and Client for a connection request?

Select and Place:

DHCP Offer	Step 1
DHCP Discover	Step 2
DHCP ACK	Step 3
DHCP Request	Step 4

Correct Answer:

	DHCP Discover
	DHCP Offer
	DHCP Request
	DHCP ACK

Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.ionos.com/digitalguide/server/configuration/dhcp-an-overview-of-the-clientserver-protocol/

QUESTION 24
Which open source operating system is designed to handle demanding business applications such as network and system administration, database management, and web services?

A. Linux
B. AIX

C. Windows

D. ESXi

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.webopedia.com/TERM/L/linux_server.html

QUESTION 25
DRAG DROP

Select and Place:

Ensure that the «BIOS» ratio button is selected for Boot Mode and click Apply	Step 1
Enter System BIOS	Step 2
Power on the server	Step 3
At the prompt select the F2 key to enter the System Setup menu	Step 4
Select the «Boot Settings» option	Step 5

Correct Answer:

	Power on the server
	At the prompt select the F2 key to enter the System Setup menu
	Enter System BIOS
	Select the «Boot Settings» option
	Ensure that the «BIOS» ratio button is selected for Boot Mode and click Apply

Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
An administrator is scheduling a software patch in an enterprise environment. What is a consideration for the administrator regarding potential impact to users?

A. Server Redundancy
B. Update file size
C. Disruption of workflow
D. Network Bandwidth

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
A system administrator notices that a client system cannot access the Internet. The IP address is 169.254.10.26. The client system is correctly wired.

Which server role should the administrator investigate?

A. PROXY
B. TCP/IP
C. SNMP
D. DHCP

Correct Answer: D
Section: (none)

Explanation
Explanation/Reference:

QUESTION 28 Which initial menu option should be chosen from the iDRAC Virtual Console to access
System Setup?

A. Lifecycle Controller
B. Next Boot
C. Normal Boot
D. Virtual CD/DVD

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.dell.com/support/article/pk/en/pkbsd1/sln306877/dell-poweredge-how-to-configure-the-idrac-9-and-the-lifecycle-controller?lang=en

QUESTION 29 What is a benefit of
SAS technology?

A. Has no moving parts available
B. Used for storage back-plane or HDD carrier applications
C. Easy to manage cable and cable length
D. Has two drives per cable connector

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: http://www.mouser.com/ds/2/18/FCI_bwb_sas-941993.pdf

QUESTION 30
Which solution is recommended for installing a hypervisor in a Dell EMC PowerEdge rack server or in a hyper-converged infrastructure (HCI) host?

A. FC HBA
B. BOSS
C. CPU
D. NVDIMM

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31 What is an accurate statement regarding 40 Gbps
Ethernet ports?

A. Can be used as a single 40 Gb connector or used as four 10 Gb connections
B. Cannot be configured into a stack connection
C. Must be segmented into four independent 10 Gb connections
D. May only be used as a non-negotiable, single 40 Gb link

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32 Which Ethernet cable type should be installed if high interference
is a concern?

A. RJ45
B. 802.11n
C. STP
D. UTP

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.makeuseof.com/tag/everything-you-need-to-know-about-ethernet-cables/

QUESTION 33 Why is a mandatory practice to review the service manual prior to replacing or reseating components on a Dell EMC
PowerEdge server?

A. Service manual gives detailed instructions at which firmware levels the components should run
B. Service manual provides vital information on which live wires in the system to avoid, to ensure electric shock does not occur
C. Service manual covers crucial cable routing and special part handling instructions
D. Service manual describes how to reconfigure the server for optional performance-boosting settings, increasing efficiency
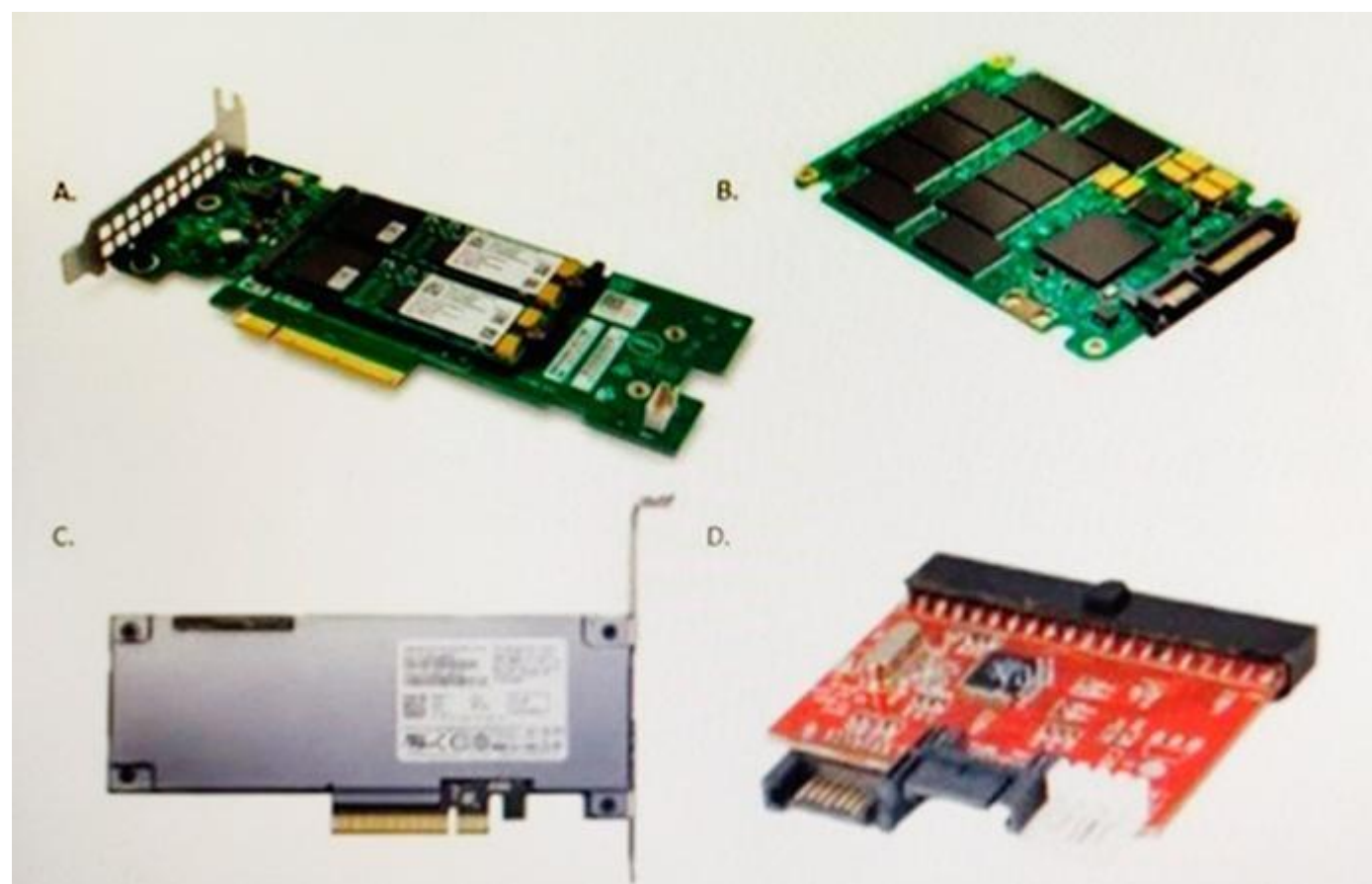
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
Based on the exhibit, which device is a Boot Optimized Storage Solution (BOSS) Controller?

A. A
B. B
C. D.
D. C

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://vinfrastructure.it/2017/09/dell-boot-optimized-storage-solution-boss/

QUESTION 35 What is the maximum bootable storage capacity supported
by BIOS mode?

A. 512 GB
B. 1 TBC. 2 TB
D. 4 TB

Correct Answer: C
**Sec
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n**A.. 2

B..4
C..4
D..4
Cor
rect
Ans
wer
:...4

Explanation/Reference:
Reference: https://www.dell.com/community/PowerEdge-HDD-SCSI-RAID/Maximum-Storage/td-p/4013574

QUESTION 36
What is the maximum amount of hard drives required per RAID set, when configuring RAID 50?
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37 Why is Error Correcting Code (ECC) memory beneficial in Dell EMC
PowerEdge servers?

A. Provides a separate memory management scheme for memory operation?
B. Creates redundancy by mirroring physically installed memory
C. Can present more memory than what is physically installed
D. Can repair errors without interrupting other server operations
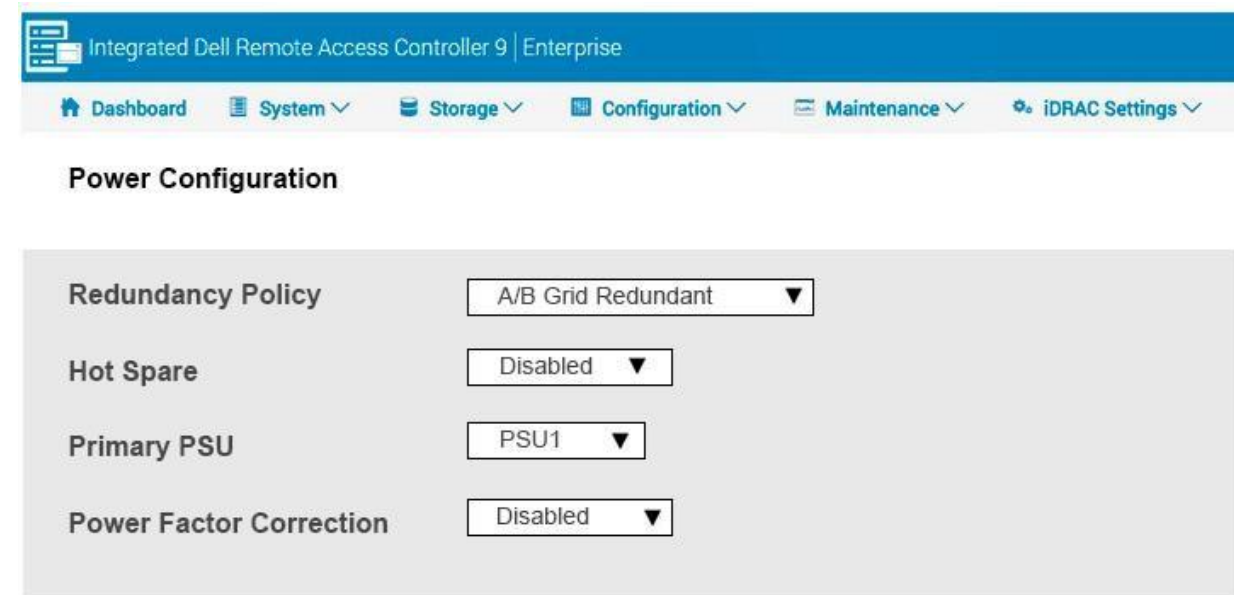
Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
Based on the exhibit, Grid Redundant Mode is selected on a Dell EMC PowerEdge server and the Hot Spare feature is disabled. How is the power output distributed in a dual-power supply configuration?

A. Equally across both power supplies

B. Only one power supply ever provides power
C. power supply 2 only provides output when power supply 1 reaches maximum capacity
D. Majority of the output is always provided by power supply 1

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:

QUESTION 39 Which error control technique is used by
ECC memory?

A. Repetition codes
B. Hamming code
C. Checksums
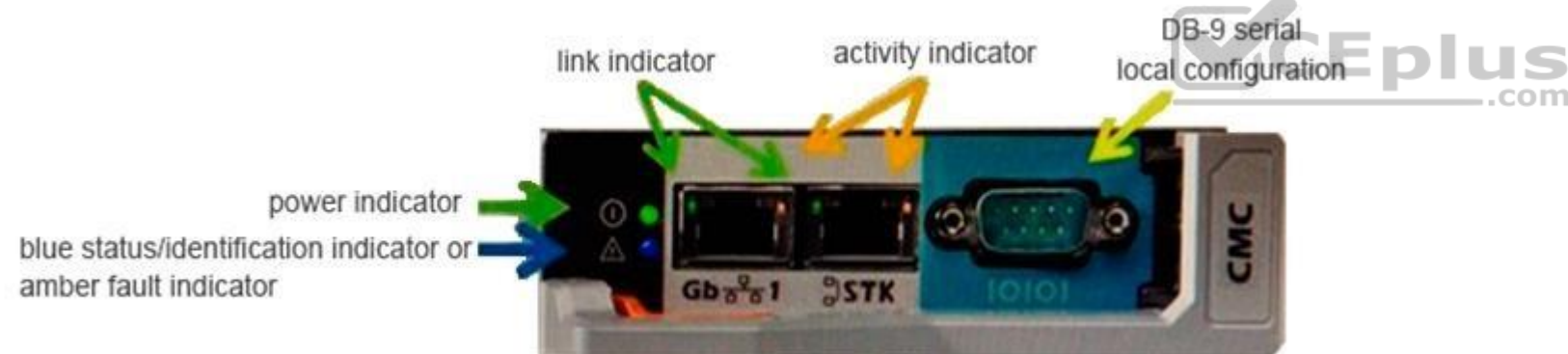D. Cryptographic hash functions

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://en.wikipedia.org/wiki/ECC_memory

QUESTION 40
Refer to the exhibit.

An administrator has a standalone M1000e chassis with only a single CMC module. The CAT6 cable is plugged into the Ethernet port closest to the DB-9 connector. The power indicator light is lit but the administrator is unable to access the CMC module.

What could be the cause of this issue?

A. No DB-9 serial cable is plugged in
B. CMC module was removed without powering off the chassis
C. CAT6 cable into the stacking port
D. CAT5 cable is required for connection to CMC

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://topics-cdn.dell.com/pdf/poweredge-m1000e_owners-manual_en-us.pdf

QUESTION 41
DRAG DROP

A customer needs to access webmail on a laptop. Using a browser, they type in the URL and the page displays correctly. What is the correct sequence of steps used to load the webpage?

Select and Place:

Browser connects to a Web server	Step 1
Server sends back the webpage	Step 2
Client requests access to a webpage	Step 3
Client browser displays webpage	Step 4
Web server processes the request	Step 5

Correct Answer:

	Client requests access to a webpage
	Browser connects to a Web server
	Web server processes the request
	Server sends back the webpage
	Client browser displays webpage

Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
What is the primary reason for a server emitting a greater heat load than a client system?

A. Smaller system fans in the server
B. Higher ambient temperature in the data center
C. Less space for air to circulate inside the server chassis
D. Increased power usage of the server components

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43 A system administrator is configuring the file transfer role of a server. Important data needs to be accessed by end users.

Which file transfer service provides secure transfer of the data?

A. SNMP
B. FTP
C. SFTP
D. TFTP

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44 Which RAID level has the lowest overhead of all RAID types?

A. RAID 0
B. RAID 1C. RAID 5
D. RAID 6

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: http://www.raid-calculator.com/raid-types-reference.aspx

QUESTION 45 What is a characteristic of server and user authenticator?

A. Server does not need to know exactly who is accessing the information or site for authentication.
B. Authentication uses logs to determine tasks each individual performs and which files the user is accessing.
C. Authentication is commonly implemented through login ID and password in private and public networks.

D. User does not need to provide their identity to the server or the client for authentication.

Correct Answer: C
Section: (none)
Explanation
Explanation/Reference:

QUESTION 46 What benefit is offered by modular servers over
rack servers?

A. Lower power requirements result in lower datacenter operating costs.
B. Higher density is achieved by reducing the amount of consumed rack space
C. Hot replacement of any server in the enclosure is possible
D. All hardware technology is integrated into a single circuit board

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.racksolutions.com/news/data-center-optimization/blade-server-vs-rack-server/

QUESTION 47 What is an example of a
dedicated server?

A. Virtual Switch server
B. Clustered server
C. Database server
D. Secure Shell server

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48 Which RAID level requires a minimum of four
hard drives?

A. RAID 0
B. RAID 1C. RAID 5
D. RAID 6

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.enterprisestorageforum.com/sans/features/article.php/3855631/RAID-Storage-Levels-Explained.htm

QUESTION 49
A General Purpose GPU (GPGPU) is commonly installed in Dell EMC PowerEdge servers. Which component does a GPGPU complement when processing tasks?

A. iDRAC modules
B. Memory
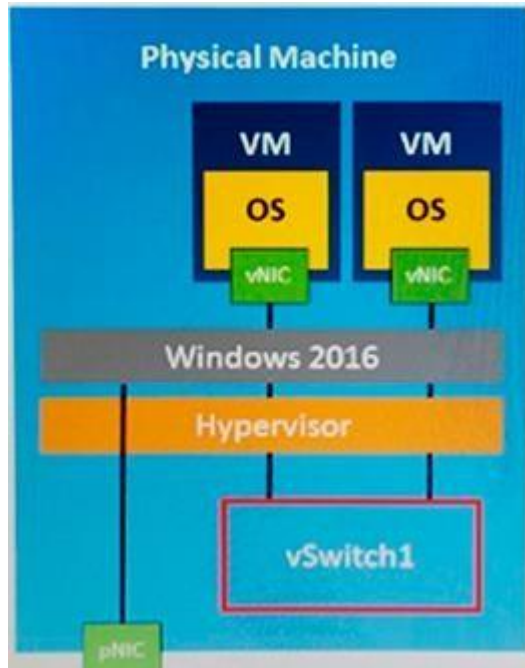C. Network Interface Cards

D. CPU

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
Based on the exhibit, which type of virtual switch is vSwitch1?

A. External
B. Open
C. Private
D. Public

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
A RAID 5 configuration with 20 hard drives loses one hard drive. How many additional hard drive failures can this configuration tolerate before experiencing data loss?

A. 0
B. 1
C. 2
D. 3

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference: https://www.prepressure.com/library/technology/raid

QUESTION 52
A system administrator is tasked with troubleshooting a connectivity issue with a CMC module. Connection through a wired Ethernet connection is not possible.
Which alternative connection method should the administrator use?

A. Serial
B. NFCC. SSH
D. Wireless

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 53 What is a benefit of having an Uninterruptible Power Supply (UPS) attached
to a server?

A. Provides permanent power to a server, eliminating the need for a wall outlet.
B. Keeps a server running during a long power outage
C. Provides short-term protection to allow a server to be shut down gracefully.
D. Replaces the need for power supplies in a server.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 54
Which one-to-many Dell EMC solution provides a simple interface for system administrators to maximize the uptime and health of the Dell EMC systems?

A. Update Packages
B. Repository Manager
C. DataCenter Capacity Planner
D. OpenManage Essentials

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference: https://topics-cdn.dell.com/pdf/idrac9-lifecycle-controller-v3212121_reference-guide9_en-us.pdf (p.11)

QUESTION 55 A system administrator is unable to install Hyper-V on a Microsoft Windows Server 2016. What is a possible reason
for this issue?

A. Virtualization feature turned on in BIOS
B. System is equipped with a 64-bit processor
C. System has 2 GB memory
D. Standard license in installed

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
QUESTION 56
A backup administrator is migrating their tape drive backup solution from LTO-4 to LTO-6 generation. Both LTO-3 and LTO-4 media are presently in use. All LTO-4 drives are to be replaced by LTO-6 drives, but the administrator plans to avoid replacing a maximum amount of the tapes already in use.

What should the administrator do to accomplish this task?

A. Back up all critical data on at least LTO-4 tapes in order to be read it from their new LTO-6 drives.
B. Nothing, the administrator will still be able to read any tape currently in use will their LTO-6 drive and will be able to retrieve data if needed
C. Back up all critical data from LTO-3 tapes to LTO-4 tapes
   Next, back up LTO-4 tapes to LTO-5 tapes
   Next, back up LTO-5 tapes to LTO-6 tapes
D. Back up all critical data from LTO-3 tapes to LTO-4 tapesNext, back up LTO-4 tapes to LTO-5 tapes

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 57 What is a
backup process?

A. Capturing historical records used for future reference and is not actively used by the server.
B. Using server technologies data from one computer node to another.
C. Moving data that is no longer actively used to a separate storage device, for long-term retention.
D. Copying files to a secondary site for preservation in case of equipment failure or other catastrophe.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58 What is the objective of server configuration management in an enterprise
environment?

A. Reduce cost of servers regardless of workload types utilization types, or performance requirements.
B. Minimize cost of servers and to extend the lifetime of servers being used.
C. Maximize performance per watt at all utilization levels and workload types while still meeting performance requirements.
D. Maximize server performance, regardless of workload, utilization, or performance requirements.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59 A system administrator recently hired by a company notices that the client systems are set with static IP addresses. The administrator wants the IP addresses automatically distributed to each computer.

Which server role is required to perform this task?

A. Web Server
B. DHCP

C. DNS
D. Active Directory

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60 Simultaneously pressing the "Ctrl" + "Shift" + "Esc" keys launches which Microsoft Windows
built-in tool?

A. Task Manager
B. Network Monitor
C. Performance Monitor
D. Resource Monitor

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference: https://blog.pcrisk.com/windows/12938-cant-turn-off-sticky-keys