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# 000-152

## IBM

*System x Technical Principles V10*

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<b>Certification:</b>	<b>IBM System x</b>	<b>Total Questions:</b>	<b>46</b>

**Question: 1**

A manufacturing customer wants a consolidation solution that provides scale-out capability and the highest processor density per rack unit. Which of the following solutions meets the customer requirements?  
Category:

- A. x3650 M3 with Microsoft Virtual Server
- B. Blade Center JS43 with VMware
- C. x3850 X5 with VMware
- D. Blade Center HS22V with VMware

**Answer: D**

**Question: 2**

A small business customer is interested in Blades and require some shared storage. They only expect to have 3-4 blades, but storage wise they expect to require 4TB RAID 1+0. They also require Flash Copy and Remote Mirroring. Which of the following will be an issue? Category:

- A. Flash Copy is not supported on the DS3000
- B. Remote mirroring is supported on the DS3000
- C. Flash Copy is supported on the Blade Center S RAIDed SAS Switch Modules
- D. Flash Copy is not supported on Blade Center S RAIDed SAS Switch Modules

**Answer: D**

**Question: 3**

An IBM Technical Specialist has a prospective customer who is excited about eX5 and is working on configurations for a very large complex opportunity. During the engagement the customer has changed the design several times and has significantly increased the scope. The customer recently selected a Business Partner who has been involved in the last few design changes. What steps should the IBM Technical Specialist take to make sure the customer is satisfied with the solution? Category:

- A. Turn over current design to Techline to create configurations
- B. Perform knowledge transfer of design requirements to Business partner then disengage
- C. Work with business partner to engage Techline to assist with configurations and request Technical and Delivery Assessment (TDA)
- D. Work with business partner to engage Techline to create configurations

**Answer: C**

**Question: 4**

A customer needs to install a rack with six of the x3650 M3 servers with standard line cords. Each server has redundant power supplies. Which of the following meets this requirement? Category:

- A. Two of DPI C13Enterprise PDU 39Y8941.
- B. One of DP1 Universal Rack PDU 39Y8951
- C. One of DPI C13Enterprise PDU 39Y8941
- D. Two of DPI C19Enterprise PDU 39Y3943

**Answer: A**

**Question: 5**

A retail customer wants to identify the system firmware version information on several IBM System x servers and apply updates as required from a central location without causing server downtime. Which IBM tool provides this capability? Category:

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- A. CDAT
- B. Systems Director
- C. Server Guide.
- D. Tivoli Provisioning Manager for Operational System Deployment (TPMfOSD)

**Answer: B**

**Question: 6**

Which statement is true about Predictive Failure Analysis (PFA) for System x servers? Category:

- A. PFA is embedded in selected server components and requires no action for being enabled
- B. PFA is available only when the Server Plus Pack is installed on the server.
- C. PFA is available only when a Virtual Media Key is present.
- D. PFA is available when the related setting is turned on in UEFI settings.

**Answer: A**

**Question: 7**

A customer purchases a virtual media key on a x3650 M3. They ask where to install the key. Which of the following provides the correct answer? Category:

- A. Problem Determination and Service Guide
- B. xRef
- C. Server Guide Hardware Reference
- D. COG

**Answer: A**

**Question: 8**

A server has been having a memory problem. What feature can be used to determine the failing memory module? Category:

- A. Reboot the server
- B. RSA II
- C. Light Path Diagnostics
- D. Server Guide

**Answer: C**

**Question: 9**

A media customer has an IBM Blade Center E with ten HS22 Blade servers installed. Currently only one Ethernet port is available for each server. What is required to enable the second port on each server? Category:

- A. Fibre Channel Switch Module
- B. Gb Ethernet expansion card
- C. Myrinet Cluster expansion card
- D. Ethernet Switch Module

**Answer: A**

**Question: 10**

A customer plans to implement a network of x3690 X5 servers. The customer has very limited funds. Which of the following tools would allow installation of firmware updates? Category:

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- A. Tools Center
- B. VMwarevSphere 4
- C. Tivoli Provisioning Manager (TPM)
- D. Tivoli Storage Manager (TSM)

**Answer: A**

**Question: 11**

A banking is confused about RAID protection. Which of the following are characteristics of RAID- 6? Category:

- A. Double drive failure in an array and extremely high data fault tolerance
- B. Double drive failure in an array and more total storage capacity than RAID-5
- C. Extremely high data fault tolerance and higher performance than RAID-5
- D. Higher performance than RAID-5 and more total storage capacity than RAID-5

**Answer: C**

**Question: 12**

What is the maximum amount of memory supported on IBM Blade Center HS22 (using 4GB DIMMs)? Category:

- A. 128GB
- B. 32GB
- C. 48GB
- D. 64GB

**Answer: C**

**Question: 13**

A customer who is reducing their technical staff has requested an Intel server proposal from various vendors. Which of the following is most relevant to this proposal? Category:

- A. Systems Management.
- B. Grid Computing
- C. Advanced Energy Manager (AEM)
- D. Remote KVM

**Answer: A**

**Question: 14**

A customer plans to add high performance shared storage with three servers and using direct attach. Cost is a minor issue compared to performance. Which of the devices meets this requirement? Category:

- A. DS3200
- B. EXP3000.
- C. DS3300
- D. DS3400

**Answer: A**

**Question: 15**

A customer server has the maximum local storage installed. The customer plans to share this new storage with other servers. Which of the following provides that server additional storage? Category:

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- A. Add External Storage via EXP3000
- B. Replace current storage with more dense drives
- C. Add External Storage via SAN
- D. Add storage expansion blade

**Answer: C**

**Question: 16**

Which IBM Systems Director task will give you the ability to update firmware and device drivers on System x servers? Category:

- A Remote Supervisor Adapter (RSA II)
- A. Integrated Management Module (IMM)
- B. Update Manager
- C. Tivoli Provisioning Manager for OS Deployment (TPMfOSD)

**Answer: C**

**Question: 17**

A retail customer's application environment requires 32 memory slots and four processors to run scientific and technical computing, financial analysis, weather simulation, and life sciences. Which of the following System x server meets these needs at a minimum cost? Category:

- A. x3850 X5
- B. x3550 M3
- C. HX5
- D. x3650 M3

**Answer: A**

**Question: 18**

Which of the following Blade servers offer hot swap internal hard drives? Category:

- A. HS21
- B. HS22
- C. HS22V
- D. HXS

**Answer: B**

**Question: 19**

A distribution customer requires a fault-tolerant disk subsystem for their x3650 M2 server. They purchased and attached two EXP3000 External Expansion Enclosures to a ServeRAID MR10M RAID controller. The customer requires the highest performance possible, regardless of cost, for the EXP-based drives. Which RAID level meets these requirements? Category:

- A. RAID-1
- B. RAID-5
- C. RAID-10
- D. RAID-50

**Answer: C**

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**Question: 20**

A client is configuring an x3650 M3. Once the system is in production, they need to be able to remotely view and make changes to the UEFI interface. Which of the following is the correct way to configure this? Category:

- A. Configure the RSA with an IP address
- B. Configure the BIM with an IP address
- C. Configure the AMM with an IP address
- D. Configure the IMM with an IP address

**Answer: D**

**Question: 21**

IBM Tools Center Bootable Media Creator is used to create bootable media. Which of the following functions can be performed with this tool? Category:

- A. Update Firmware. Update Drivers, Run Diagnostics, Install Windows
- B. Update Firmware, Update Drivers, Run Diagnostics, Install Windows and Linux Operating Systems
- C. Update Firmware. Run Diagnostics. Install Windows
- D. Update Firmware. Update Drivers. Install Windows

**Answer: C**

**Question: 22**

A customer recently purchased an HS22v blade to install into their existing BCH chassis. The customer installed the blade and it was not recognized. Which of the following is the first question for this customer? Category:

- A. Did you add the redundant AMM?
- B. What is the processor wattage?
- C. Is the AMM firmware up to date?
- D. Is the HS22V memory configuration optimized?

**Answer: C**

**Question: 23**

After putting together a configuration that meets customer's requirements. A TDA is suggested. The customer is not familiar with the TDA process and asks why this should be done. Which of the following is the benefit of a TDA? Category:

- A. TDAs are recommended only for high end hardware and very large or complex business opportunities.
- B. A TDA will ensure the solutions and configurations are complete and technically sound and meet customer requirements.
- C. A TDA will guarantee that the hardware will work in customer's environment at the volumes projected.
- D. A TDA brings an IBM technician onsite to properly inspect and installed hardware and related software.

**Answer: B**

**Question: 24**

A customer wants to update their system with the latest drivers. Which of the following tools would you suggest? Category:

- A. Bootable Media Creator
- B. Advanced Settings Utility
- C. Update press System Pack Installer
- D. Server Guide Scripting Toolkit



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**Answer: C**

**Question: 25**

A customer wants a Blade to run a very memory intensive application. They require 48 GB with later expansion to 160 GB using 4GB DIMMS. Which of the following products supports this requirement? Category:

- A. HS22
- B. HS22V
- C. LS42
- D. HX5

**Answer: D**

**Question: 26**

A customer recently purchased a new x3550 M3 server and one of the hard drives has failed. The customer has a standard warranty. They called you asking for a replacement. Which action should the customer take? Category:

- A. Contact the IBM FTSS to replace the drive.
- B. Contact the IBM CSR or SSR to replace the drive.
- C. Order a replacement drive.
- D. Contact IBM Service

**Answer: B**

**Question: 27**

A customer needs maximum performance with fault-tolerance from their disk subsystem. Which RAID level meets this requirement? Category:

- A. RAID-0
- B. RAID-1
- C. RAID-5
- D. RAID-10

**Answer: D**

**Question: 28**

A Customer has a functional server deployment solution that uses a combination of disk imaging and application pushing technology. They need to get a working Windows 2003 image for their new servers as soon as possible. What method can achieve this? Category:

- A. Install Windows 2003 using the F6 supply Mass Storage Controller option
- B. Replace Customer's deployment solution with Tivoli Provisioning Manager for OS Deployment Director Edition
- C. Deploy Customer's existing image and useUXSPi to update IBM specific drivers
- D. UseServerGuide to install Windows 2003

**Answer: D**

**Question: 29**

A toy manufacturing customer wants to run Microsoft SQL Server. Which category is applicable for such a solution? Category:

- A. E-mail
- B. Database

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- C. Network Infrastructure
- D. Systems Management

**Answer: B**

**Question: 30**

A customer has requested five rack mounted servers, and a rack. They want redundant power connections. Which of the following is required to meet these requirements? Category:

- A. Redundant power supplies on the servers
- B. Redundant PDUs in the rack
- C. Redundant power supplies in the servers and redundant PDUs in the rack
- D. Redundant power supplies in the servers, redundant PDUs in the rack, and Active Energy Manager (AEM)

**Answer: C**

**Question: 31**

A new IBM x 3650 M3 customer has experienced support issues with problem resolution from their previous vendor. The biggest problem was with Microsoft applications failing intermittently. Which of the following IBM products covers this issue? Category:

- A. IBM Hardware Standard Warranty
- B. TechLine
- C. Tivoli Problem Resolution Manager (TPRM)
- D. RTS

**Answer: D**

**Question: 32**

You have successfully sold and installed your customer's System x solution. Sometimes the overall success of a sale depends on how well you have trained your customer to support their new hardware. Please consider the following tools. Which one would be the best for proactively determining a server outage, and contacting the system administrator about the outage? Category:

- A. CDAT
- B. Configuration and Options Guide (COG)
- C. Physical Alarm Sounding in Data Center
- D. IBM Systems Director

**Answer: D**

**Question: 33**

An installed manufacturing customer has a mission-critical application that requires a rack mount server that will protect them against downtime in the event a memory DIMM failure occurs. They also need load balancing, fault-tolerant NICs and redundant power supplies and fans. Which of the following servers meet these requirements? Category:

- A. x3200 M3
- B. x3250 M3
- C. x3200 M3 and x3250 M3
- D. x3650 M3

**Answer: A**

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**Question: 34**

A customer has asked you to investigate their current x86 server environment to determine if they can achieve a reduction in power and rack consumption. They plan to implement VMware and local shared storage. Which of the following consolidation proposals meets these needs? Category:

- A. Blade Center S
- B. Blade Center H
- C. Blade Center E
- D. Blade Center HT

**Answer: A**

**Question: 35**

A prospective customer has iSCSI installed. The new project requires a large high performance storage and tape network. The customer does not appear to understand the terminology and options of the fiber channel components of the solution. Further discussion confirms that the customer only has cursory knowledge of Fiber Channel (FC) and is not currently prepared to for the installation. What steps should be taken to make sure the customer is satisfied with the solution? Category:

- A. Suggest a cloud network
- B. Direct the customer to books and white papers on FC technologies
- C. Work with business partner to include Lab Services engagement to setup FC environment and perform knowledge transfer
- D. Switch project to iSCSI

**Answer: C**

**Question: 36**

A retail customer has just installed an IBM option into their server, but the option is not working properly. Which of the following should be checked to determine if the device is supported in the server? Category:

- A. IBM Server Proven site
- B. System x Reference Library (xRef)
- C. COG Compatibility List
- D. Hardware Compatibility List (HCL)

**Answer: A**

**Question: 37**

Which of the following is used in an IBM Blade Center to provide cooling? Category:

- A. Fans for each blade
- B. Chilled Water
- C. Blowers
- D. Freon

**Answer: A**

**Question: 38**

Customer requests a HX5 Blade but his application may demand more than its 16 memory DIMMs. Software licensing is a big concern. Which of the following additions meets this requirement? Category:

- A. Another HX5
- B. MAXS

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- C. HS22V
- D. x3850 X5

**Answer: B**

**Question: 39**

A customer is experiencing problems with a rack mount server. The problem might be a failing memory module. Which of the following can be used to find the failing module without going to the physical server? Category:

- A. Light Path Diagnostics
- B. Remote Presence
- C. Integrated Management Module (IMM)
- D. Advanced Management Module (AMM)

**Answer: C**

**Question: 40**

Customer purchased and x3650 M3 server and requires the ability to remotely power on and off the server. What if any additional hardware would the customer need to purchase to remotely power the server on and off? Category:

- A. Visual Media Key (VMK)
- B. Integrated Management Module (IMM)
- C. Remote Supervisor Adapter (RSA II)
- D. Advanced Management Module (AMM)

**Answer: B**

**Question: 41**

A retail customer has a database server that requires more than 64GB memory and four or more processor sockets. Which of the following System x servers meets these requirements? Category:

- A. x3655
- B. x3950 M2
- C. x3755
- D. x3650 M3

**Answer: B**

**Question: 42**

A customer is involved in an IBM Critical Situation (CritSit). The customer recently installed iDataPlex. The business partner has been assessed a significant financial penalty by IBM. Which of the following is the reason for this action by IBM? Category:

- A. The business partner was required to perform a TDA and failed to do so
- B. The business partner recommended a nonworking configuration
- C. The business partner did not support the customer correctly.
- D. The business partner failed to sell Remote Technical Support (RTS)

**Answer: A**

**Question: 43**

A larger customer with locations world-wide needs to remotely update UEFI Firmware on their systems. Which function of IBM Systems Director will help this customer? Category:

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- A. Automation Manager
- B. Update Manager
- C. System Maintenance and Update Tool
- D. Service and Support Manager

**Answer: B**

**Question: 44**

A customer is installing a new x3850 X5 server and has purchased a warranty upgrade on the server to 24 x 7 four hour response. The customer requested IBM help with setting up the RAID adapter. The customer was told IBM would not help them. Which of the following should be verified first? Category:

- A. The customer used their IBM Customer Number
- B. The customer has activated their base warranty.
- C. The customer purchased Remote Technical SupportServicepac.
- D. The customer escalated the issue to the Duty Manager

**Answer: C**

**Question: 45**

Customer is asking if new IBM UEFI recognizes their Windows 2003 Enterprise Operational System. What is the correct answer? Category:

- A. UEFI can support Windows 2003Enterprise in native mode
- B. UEFI can emulate BIOS and support Windows 2003 with no performance impact
- C. An upgrade must be done to Windows 2008Enterprise x64
- D. Only supports Windows 2003 as a virtual machine guest (VMware or Hyper-v)

**Answer: B**

**Question: 46**

A customer currently has a large group of older 1U servers. Each dedicated to a unique application. Quick provisioning of the servers is important to the customer. Which of the following approaches addresses this situation? Category:

- A. Virtualization
- B. Replace each server with energy efficient servers
- C. Upgrade in place to improve performance
- D. ImplementBladeCenter

**Answer: A**

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