Vendor: IBM

Exam Code: A4040-224

Exam Name: Assessment: Power Systems with POWER7 Common Technical Sales Skills -v2

Version: Demo

Question No : 1 - (Topic 1)

A customer plans to deploy a 24x7 application, and is evaluatingprospective solutions based on which would offer the highest level of application availability.

Which of the following solutions should be presented to the customer for consideration?

A. Power 780 with Active Memory Sharing
B. Power 770 with Active Memory Mirroring
C. Power 760 with Active Memory Mirroring
D. Power 740 with Active Memory Management

Answer: B

Question No : 2 - (Topic 1)

A customer wants to implement 8 LPARs, 4 of IBM i and 4 of AIX. The customer wants the new systems to be modular, configured tosupport their needs, and have room to expand if needed.

Which system is the minimum needed to support the customer requirements?

A. PureElex p220
B. PureElex p260
C. PureFlex p24L
D. PureFlex p460

Answer: B

Question No : 3 - (Topic 1)

Which of the following will cause Live Partition Mobility validation to fail?

A. Less than one full processor
B. AME configured for the partition

C. Network connection through HEA
D. NPIV connection to SAN storage through VIOS

Answer: C

Question No : 4 - (Topic 1)

A customer is interested in virtualizing their environment. PowerVM and VMware are the products whose hypervisors are best suited for their existing infrastructure.

Which advantage of PowerVM over VMware will most benefit their environment?

A. Industry leading hypervisor
B. Lowertotal cost of ownership
C. Consolidation of multiple workloads
D. Hypervisor components embedded in hardware

Answer: D

Question No : 5 - (Topic 1)

Which is one of the advantages of the 6-core Power 720 when compared to the 4-core Power 720?

A. Offers a P05 tier
B. Offers one 12X loop
C. Offers Dual VIO Servers
D. Offers more SAS Disk Bays in CEO

Answer: B

Question No : 6 - (Topic 1)

A customer wants to implement Linux on Power with dual VIO Servers on internal disk controllers. Which of the following systems should be suggested?

A. Power 720

B. Power 730
C. PowerLinux 7R1
D. PowerLinux 7R2

Answer: A

Question No : 7 - (Topic 1)

A customer is considering running Linux in a virtualized environment and is evaluating the differences between PowerVM and VMware.

Which of the following wouldbe an advantage of PowerVM?

A. Number of virtual processors
B. Ability to move virtual machines
C. Ability to dynamically add CPU's
D. Ability to dynamically add memory

Answer: A

Question No : 8 - (Topic 1)

A customer would like to consolidate their AIX and IBM i workloads that are currently running on several POWER6 servers. They also want to consolidate storage and use Live Partition Mobility to reduce planned downtime for server maintenance.

In addition to a Storwize V70001 PowerVM Enterprise Edition and dual VIO Servers, which of the following configurations supports these requirements?

A. One POWER7+ server
IBM i and AIX client LPARs
B. Two POWER7+ servers
IBM i and AIX client LPARs
C. One POWER7+ server
AIX client LPARs
IBM i LPAR5 with internal storage
D. Two POWER7+ servers
AIX client LPAR5
IBM i LPARs with internal storage

Answer: B

Question No : 9 - (Topic 1)

A customer plans to implement 3 production partitions on a Power 720, one each of AIX, IBM i, and Linux. The customer does not want to purchase an HMC, andwill use IVM.

Which of the following is minimum PowerVM Edition required to manage the partitions?

A. Basic
B. Express
C. Standard
D. Enterprise

Answer: C

Question No : 10 - (Topic 1)

The micropartitioning technology changed with the announcement of POWER77+. Dueto this change, what is the new minimum number of processing units required for an LPAR?

A. 0.01
B. 0.05
C. 0.10
D. 0.15

Answer: B

Question No : 11 - (Topic 1)

A customer is managing a Power 720 with dual VIO Servers with a 7310-CR4 HMC. A PS701 blade whichrequires Active Memory Expansion (AME) will be added to the environment. Existing resources must be reused as much as possible.

Which of the following supports the configuration?

A. A Flex System Manager (FSM) is required.
B. An HMC 7042-CR7 minimum needs to be added.
C. The HMC must have a minimum code level of V7R7.6.0.
D. Firmware of the blade and IVM must be at the latest level.

Answer: C

Question No : 12 - (Topic 1)

A customer is running AIX and IBM i partitions on a POWER7+740 attached to a Storwize V7000 andneeds both High Availability and Disaster Recovery.

Which of the following pars of actions supports these requirements?

A. Add PowerHA Express Edition to the existing server.
Add a Storwize V7000 at a remote location.
B. Add a second Power Systems server at a remote location.
Add PowerHA Standard Edition to both environments.
C. Add a second Power Systems server and Storwize V7000 in a remote location.
Add PowerHA Enterprise Edition to both environments.
D. Add a second Power Systems server andStorwize V7000 in a remote location.
Add PowerHA pureScale Enterprise Edition to both environments.

Answer: C

Question No : 13 - (Topic 1)

What is a technical advantage of a POWER7+ system compared to a POWER7 system?

A. Active Memory Sharing
B. Integrated VirtualEthernet
C. Increased partition density
D. Thermal Power Management Device

Answer: C

Question No : 14 - (Topic 1)

Active Memory Sharing (AMS) for an HMC managed system with multiple partitions is being planned.

In addition to updating system firmware, HMC, and modifying partition definitions, which of the following must be considered?

A. The AMS maximum memory over commitment ratio must not be exceeded.
B. An AMS usage license must be purchased for each partition using AMS on the managed system.
C. The sum of memory reservation for each partition cannot exceed 125% of the AMS limit.
D. The operating system in each partition must be updated to meet AMS minimum release and fix levels.

Answer: D

Question No : 15 - (Topic 1)

A customer is interested in upgrading their POWER6 570with 32 cores.

The customer has the following requirements for the upgraded system:

 ✐ CEO Hot Add and Repair Maintenance (CHARM)
 ✐ 50% increased core count
 ✐ 2TB of memory

At a minimum, which system supports the customer needs?

A. Power 750
B. Power 760
C. Power 770
D. Power 780

Answer: C

Question No : 16 - (Topic 1)

A customer has a requirement for a new Power Systems server with one core for the operating system and 12 HDD5 (disks). Which of the following Power 720 configurations will support the customer requirements?

A. A 6-core with a disk riser card
B. A 4-core with a 12X I/O drawer
C. A 6-core with an EXP24s disk expansion
D. A 4-core with an EXP24s disk expansion

Answer: C

Question No : 17 - (Topic 1)

A customer has installed an EXP30 disk expansion unit. Of thepositions available for disks, what is the maximum that can be used for SSD?

A. 6
B. 12
C. 24
D. 30

Answer: D

Question No : 18 - (Topic 1)

A client is interested in running a Big Data Analytics solution, such as Apache Hadoop, on a POWER7+ system. Which operating system best supports a Big Data Analytics solution?

A. AIX
B. IBM i
C. Linux
D. VIOS

Answer: C

Question No : 19 - (Topic 1)

A customer who has a POWER6 server would like to buy a POWER7+ server and wants to use one 1 2X PCI-X drawer.

Which POWER7+ models will meetcustomer requirement?

A. 6-corePower 710
6-core Power 720
8-core Power 740
B. 4-core Power 720
8-core Power 740
8-core Power 750
C. 6-core Power 720
8-core Power 740
16-core Power 770
D. 16-core Power720
16-core Power 760
16-core Power 770

Answer: C

Question No : 20 - (Topic 1)

A customer is ordering a 4-core Power 720 with IBM i and AIX licenses. Which is the minimum PowerVM edition required to support 2 IBM i and 2 AIX partitions?

A. Basic
B. Express
C. Standard
D. Enterprise

Answer: C

Question No : 21 - (Topic 1)

Whichof the following scenarios would benefit from the implementation of Shared Storage Pools as a disk storage virtualization solution?

A. A client that wants to do storage virtualization but has no SAN infrastructure
B. A client that wants to prevent theirAIX administrators from performing storage management tasks
C. A client that wants to minimize the role of the VIO server and have it act only as a pass through to the virtual disk adapters
D. A client with a dynamically changing environment that wants theflexibility to rapidly provide new storage LUNs to virtual clients

Answer: D

Question No : 22 - (Topic 1)

A customer has a POWER7 795 and a POWER6 570 in their current environment. The customer requires the following:

- *✎* Upgrade the POWER6 570
- *✎* Retain the serial number
- *✎* Integrate the system into a pool of systems supporting Elastic Capacity on Demand

What is the minimum upgrade which supports these requirements?

A. POWER7 795
B. POWER7+ 770
C. POWER 770
D. POWER7+ 780

Answer: D

Question No : 23 - (Topic 1)

A customer iscomparing RAS features between a POWER7+740 and 750. Which of the following is available only for a POWER7+750?

A. Hypervisor memory mirroring
B. Hot pluggable PCI adapters in the CEO
C. Redundant Flexible Service Processor (FSP)
D. Redundant, hot swappable, power supplies and fans

Answer: B

Question No : 24 - (Topic 1)

Which POWER7 design feature improves processor performance by reducing processor idle times?

A. TurboCore Mode
B. In Order Execution
C. Cache Data Capture
D. Out of Order Execution

Answer: D

Question No : 25 - (Topic 1)

What distinguishes the Power 760 from Power 770, Power 780 and Power 795 systems?

A. HMC requirement
B. Dual chip module
C. POWER7+ chip technology
D. Processor Capacity Upgrade on Demand

Answer: B

Question No : 26 - (Topic 1)

Assuming that necessaryrequirements have been satisfied, which RAS feature can ensure that critical workloads can remain active in the event of a processor core failure?

A. Live Partition Mobility
B. Partition Availability Priority
C. Dynamic Logical Partitioning
D. DynamicPlatform Optimization

Answer: B

Question No : 27 - (Topic 1)

A client wants to create shared storage pools to extend storage virtualization in their environment. What is the minimum version of PowerVM required?

A. Entry
B. Express

C. Standard
D. Enterprise

Answer: C

Question No : 28 - (Topic 1)

A customer wants to have 2 AIX development LPARs on a POWER7 720 server. Cost must be kept as low as possible, while being able to use VIO Server and NPIV storage for the AIX LPARs.

What is the minimum needed to support thisconfiguration?

A. PowerVM Express
One 8Gb Fibre Channel adapter
One SAS disk
One Ethernet adapter
B. PowerVM Express
Two 4Gb Fibre Channel adapters
One SAS disk
Two Ethernet adapters
C. PowerVM Enterprise
One 8Gb Fibre Channel adapter
Two SAS disks
OneEthernet adapter
D. PowerVM Standard
One 8Gb Fibre Channel adapter
One SAS disk
One Ethernet adapter

Answer: A

Question No : 29 - (Topic 1)

Compared with POWER7 what is the main benefit of POWER7+ Active Memory Expansion?

A. Smaller page files
B. Less processoroverhead

C. Dedicated Processor Cache
D. Dynamic Platform Optimizer (DPO)

Answer: B

Question No : 30 - (Topic 1)

A customer is comparing RAS features between a POWER7+750 and a Power 760. Which of the following are available only for a Power 760?

A. Hot add CX adapter
B. Dynamic processor sparing
C. Hot swap DASD and PCI adapters
D. Redundant power supplies and fans, and hot swap

Answer: B

Question No : 31 - (Topic 1)

A customer is considering server consolidation and I/O virtualization in the DMZ environment. Servers onmultiple VLAN5 will be consolidated onto a single physical server, and will need to communicate with multiple VLANs outside the sewer over a single shared Ethernet adapter in the VIO Sewer (VIOS).

Which of the following is a requirement?

A. Enable SharedEthernet Adapter failover.
B. Implement Network Interface Backup with pvlans.
C. Assign an IP address to the Shared Ethernet Adapter.
D. Enable the IEEE 802.1Q standard on the virtual Ethernet adapter.

Answer: D

Question No : 32 - (Topic 1)

As compared to Intel,what feature of POWER7 processor technology permits more efficient processor core utilization to support highly threaded applications?

A. SMT4
B. Out of order execution
C. Decimal floating point execution
D. Single precision floating point execution

Answer: A

Question No : 33 - (Topic 1)

How many times can a standard request for Trial Capacity on Demand be performed for a Power 770?

A. Once in the life of a server
B. Once per purchase of a CEO
C. Once per purchase of memory activation
D. Once per purchase of processor activation

Answer: D

Question No : 34 - (Topic 1)

An IBM i customer wants to purchase a POWER7+ 720 with all internal disk. To support future requirements, eight 300GB disks in a RAID-5 array are needed. Performance of these disks must be the same as eight 140GBdisks.

Which of the following can be used to verify this?

A. Disk Magic
B. System Planning Tool
C. Performance Navigator
D. Performance Capabilities Reference

Answer: D

Question No : 35 - (Topic 1)

A customer is evaluating solutions for IT service management, cloud and virtualization

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