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IBM

Exam C4040-252

Power Systems with POWER8 Enterprise Technical Sales Skills V1

## Exam A

### QUESTION 1

Which tool can help identify the appropriate firmware for a Power System?

- A. System Planning Tool (SPT)
- B. Inventory System Tool (IST)
- C. Fix Level Recommendation Tool (FLRT)
- D. Workload estimator (WLE)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Compared to x86, what feature of POWER8 processor technology permits more efficient processor core utilization to support highly threaded applications?

- A. Decimal floating point unit
- B. L4 caches
- C. SMT8
- D. CAPI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

A customer with POWER 7 + 780 servers would like to contain processor related charges

with Capacity on Demand for workloads which run in dedicated and shared LPARs and have pronounced seasonal peaks.

What type of Capacity on Demand (CoD) should be considered?

- A. Trial
- B. Utility
- C. Elastic
- D. Flexible

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

What Power Systems Virtual Switch mode can be used to prevent LPAR to LPAR network traffic within the system?

- A. VEB (Virtual Ethernet Bridging)
- B. VET (Virtual Ethernet Trunking)
- C. VEPA (Virtual Ethernet Port Aggregator)
- D. VES (Virtual Ethernet Switching)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

A customer is considering two Power 770 servers with AIX 7.1 and DS8800 storage, each system in a separate data center.

The customer wants to achieve the fastest recovery of a critical AIX application from server or disk malfunctions.

What is the minimum version of PowerHA that will support this requirement?

- A. PowerHA HyperSwap 7.1
- B. PowerHA Standard Edition 7.1
- C. PowerHA Enterprise Edition 7.1
- D. PowerHA Extended Distance 7.1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 6

Which of the following is the complete set of modes that can be configured on a POWER8 processor?

- A. POWER5, POWER6, POWER7, and POWER8
- B. POWERS, POWER6+, POWER7, and POWER8
- C. POWERS, POWER6+, POWER7, POWER7+, and POWER8
- D. POWER7, POWER7+, and POWER8

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www-03.ibm.com/systems/power/hardware/benchmarks/erp.html>

## QUESTION 7

Which interface supports connectivity between the POWER8 processor and the accelerator on the S824L?

- A. PCI-Express
- B. RoCE
- C. RDMA
- D. Infiniband

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5139.pdf>

Explanation: The Power S824L systems have internal I/O connectivity through Peripheral Component Interconnect Express Gen3 (PCI Express)

#### **QUESTION 8**

A customer decided to install an IBM i LPAR on an E870, which hosts AIX and VIOS partitions. The server does not contain a DVD Unit (#5771).

What is the least expensive option to install an IBM i operating system?

- A. Install an IBM i partition using the existing NIM server.
- B. Use the internal tape device to load IBM i.
- C. Configure a vSCSI adapter and use the Virtual Media Repository.
- D. Attach an external DVD drive via the USB port in front of the System Control Unit

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

A customer needs to virtualize their storage using both vSCSI and NPIV in their SAN environment.

What is the minimum number and type of HBAs that need to be configured for the VIO Server?

- A. One 8Gb HBA
- B. Two 8Gb HBAs
- C. Two 4Gb HBAs
- D. One 4Gb and one 8Gb HBA

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

A client needs assistance with managing virtual machines and energy monitoring. The client is considering implementing Systems Director.

At a minimum, which edition of Systems Director would be needed?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

Which virtualization hypervisor provides an Open Source choice for Power virtualization with big data?

- A. KVM
- B. PowerVM
- C. Xen
- D. PowerKVM

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www-03.ibm.com/systems/power/software/linux/powerkvm/>

## QUESTION 12

A customer requires a PureFlex solution with p460 nodes with 1TB of memory. What must be considered if internal storage is also a requirement for this solution?

- A. Only SAS drives are supported
- B. Only SSD drives are supported
- C. Only SFF-2 drives are supported
- D. Only PCIe-2 drives are supported

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 13

A managed service provider offering retail cloud services on E870 with DS8870 storage would like to use storage copy services to replicate data between a primary and secondary data center located 200 miles (322 km) apart.

Which product is required?

- A. FlashCopy
- B. Metro Mirror

- C. Global Mirror
- D. Snapshot

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

A customer would like to efficiently manage the WebSphere Application Server software licensing costs of an uncapped partition in a shared processor pool.

Which of the following should be set appropriately?

- A. The number of processor value units
- B. The capacity entitlement of the LPAR
- C. The number of virtual processors assigned to the LPAR
- D. The maximum number of physical processors allocated to the LPAR

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

A client would like to automate provisioning of new virtual machines with an end user self-service interface.

Which of the following will provide that functionality?

- A. IBM Cloud Manager with OpenStack
- B. PowerVC
- C. IBM Platform Resource Scheduler



D. PowerSC

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

Which of the following is a benefit of Intelligent Cache management in the POWER7+ chip?

- A. Reduction of chip size
- B. Improved memory reliability
- C. Reduced energy consumption
- D. Minimized latency in accessing data

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

Which E870 / E880 offering adds value to a POWER8 solution with IBM Cloud

Orchestrator?

- A. ATS (Advanced Technical Services)
- B. PowerCare
- C. IBM Cloud Manager with OpenStack
- D. Linux

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

A customer is interested in running a dual VIOS configuration, and wants to avoid SAN boot for the VIOS.

Which of the following solutions should be recommended?

- A. Allocate iSCSI storage on two separate adapters for the VIOS boot disks.
- B. Allocate Fibre Channel storage to the machine and then use vSCSI to the VIOS for boot disks.
- C. Allocate two SAS disks on two separate SAS adapters for VIOS boot disks.
- D. Allocate two Fibre Channel LUNs and two iSCSI LUNs, then give one of each to the VIOS boot disks.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which of the following is a design consideration for the E870 / E880?

- A. The integrated SAS controllers in the system nodes manage all six SAS bays in the system node.
- B. A DVD drive must be included in either the system control unit or in a system node.
- C. Only low profile PCIe adapters are supported in the system node.
- D. Each system node has eight PCI Gen3 slots which are a mix of x8 and x16 PCIe slots.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

A client is evaluating POWER8 relative to x86 for a big data and analytics solution. They want to determine the lowest cost option.

What could be used to provide a financial analysis?

- A. Eagle TCO Engagement
- B. IBM Workload Estimator
- C. Scorpion Study
- D. IBM eConfig

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

A customer has a Power Systems server with storage attached in two EXP24 expansion units. Each EXP24 is populated with 10 disks and is attached to its own SAS RAID adapter. The usable storage is approximately 80% full across the 20 units and currently uses RAID-5 for disk protection.

The customer is concerned about the time required between a drive failure and when disk protection is restored. Which of the following should the customer consider to minimize the recovery time and minimize additional hardware costs?

- A. RAID-1
- B. RAID-10
- C. RAID-5 with hot spare
- D. RAID-6 with hot spare

**Correct Answer: C**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

### **QUESTION 22**

Which of the following is true for an IBM Power Enterprise processor pool?

- A. The master HMC and backup master HMC can be concurrently assigning activations and resources to servers in the pool.
- B. Multiple physical sites are supported, but each site must have access to the master HMC.
- C. A server is deleted from, or added to, the pool when the client creates a new XML file.
- D. The master HMC is defined using an client-created XML file which lists serial number of each Enterprise Pool Participate (EPP).

**Correct Answer: A**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5101.pdf>

### **QUESTION 23**

A retail customer has implemented the following at each store location:

- A Linux-based POS (Point of Sale) application
- A data collection application on an x86 system
- An additional S822L running data analytics

The customer wants to consolidate to a single system in each store. They prefer the POWER platform, but stated concern about the data structure of the POS systems.

What can be presented to the customer to minimize this concern?

- A. PowerKVM enables Endian neutrality.
- B. The memory system of Power Servers is Endian neutral.

- C. The ability of Power Systems to support little-Endian and big-Endian Linux instances on the same server.
- D. The POS system can be re-compiled to support the big-Endian structure needed by the analytics application.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

With the new XL C/C++ compiler, you can create and port applications for execution on the next generation of IBM systems supporting little endian architectures and built on POWER8 technology designed to handle big data and to drive modern workloads for cloud, mobile, and social.

Reference: [http://www-01.ibm.com/common/ssi/rep\\_ca/1/897/ENUS214-411/ENUS214-411.PDF](http://www-01.ibm.com/common/ssi/rep_ca/1/897/ENUS214-411/ENUS214-411.PDF)

#### **QUESTION 24**

Which of the following describes the number and type of slots supported by each PCIe Gen3 I/O Expansion Drawer fan-out module?

- A. 8 PCIe x8 slots  
4 PCIe x16 slots
- B. 6 PCIe x8 slots  
6 PCIe x16 slots
- C. 2 PCIe x8 slots  
4 PCIe x16 slots
- D. 4 PCIe x8 slots  
2 PCIe x16 slots

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [http://downloadt.advantech.com/ProductFile/PIS/ASMB-823I/Product%20-%20Datasheet/ASMB-823I\\_DS\(01.19.15\)20150123155323.pdf](http://downloadt.advantech.com/ProductFile/PIS/ASMB-823I/Product%20-%20Datasheet/ASMB-823I_DS(01.19.15)20150123155323.pdf)

Explanation: Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3)

## QUESTION 25

How is the 19 inch PCIe Gen3 I/O Expansion Drawer connected on POWER8 systems?

- A. PCIe Gen3 Infiniband Adapter
- B. GX++ Bus
- C. Optical CXP Converter Adapter
- D. PCIex8SR-IOV Adapter

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

## QUESTION 26

In addition to higher bandwidth and lower latency of eDRAM on POWER8 over SRAM on x86, what is another compelling benefit of POWER8 technology?

- A. Lower Power Consumption
- B. Less costly
- C. Less CPU overhead
- D. Appearance of more physical Memory

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 27

Which statement best describes the System Control Unit (SCU) in a two-node Power E870 / E880?

- A. The two nodes share an SCU unit through power and Infiniband cables.
- B. The two nodes share an SCU through clock and FSP cables.
- C. An SCU is optional when the operator control panel is included on each system node.
- D. Each node has its own SCU for redundancy.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

## QUESTION 28

Which of the following RAS features is always enabled and functional on an E870 / E880, regardless of configuration?

- A. System auto-restart
- B. Dynamic Memory Sparing
- C. Dynamic Processor Sparing
- D. Processor Instruction Retry

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://mrt.presalesadvisor.com/PowerStoragePDF/687.pdf>

Explanation: Again by using the advanced RAS feature that is known as Processor Instruction Retry.

## QUESTION 29

Which of the following PowerVM Editions is required to take advantage of Live Partition Mobility?

- A. Basic

- B. Express
- C. Standard
- D. Enterprise

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 30

A customer is considering a Power Systems solution to provide in-memory table look-up for large volumes of unstructured data for their mobile and social applications.

Which of the following Power Systems solution editions satisfies the requirement?

- A. IBM Solution for Analytics
- B. IBM Data Engine for Analytics
- C. IBM Data Engine for NoSQL
- D. IBM BLU Acceleration

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=SP&htmlfid=POS03135USEN&appname=TAB\\_2\\_2\\_Ap pname#loaded](http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=SP&htmlfid=POS03135USEN&appname=TAB_2_2_Ap pname#loaded)

### QUESTION 31

Comparing PowerVM to VMware which of the following is an advantage of PowerVM?

- A. Hypervisor Security
- B. Virtual Machine Mobility
- C. Ability to dynamically add memory



D. Ability to dynamically add processors

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

A client is considering the S824L system for development of a real time financial trading application. What is required to program the accelerator?

- A. CUDA
- B. OpenCL
- C. OPAL
- D. QEMU

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://openpowerfoundation.org/category/blogs/>

### QUESTION 33

When connecting a 12 slot PCIe Gen3 I/O Expansion drawer, how many CXP adapters are required?

- A. 1
- B. 4
- C. 2
- D. 3

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [http://www.cutaiwan.com/uploads/IBM\\_201421222438.pdf](http://www.cutaiwan.com/uploads/IBM_201421222438.pdf)

**QUESTION 34**

Which of the following RAS features was added to the POWER8 design?

- A. Processor Affinity
- B. First Failure Data Capture
- C. Error Correction Codes (ECC)
- D. Memory Controller Replay Buffer

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www-950.ibm.com/events/www/grp/grp037.nsf/vLookupPDFs/02%20Architecture%20Matters%20BP%203.8%20NC%20Deck%203/\\$file/02%20Architecture%20Matters%20BP%203.8%20NC%20Deck%203.pdf](https://www-950.ibm.com/events/www/grp/grp037.nsf/vLookupPDFs/02%20Architecture%20Matters%20BP%203.8%20NC%20Deck%203/$file/02%20Architecture%20Matters%20BP%203.8%20NC%20Deck%203.pdf) (See the Page #25).

**QUESTION 35**

Which IBM Software Group product is most appropriate for a customer that wants to build a Business Intelligence solution for their Power Systems-based data warehouse?

- A. Cognos
- B. DB2 PureScale
- C. WebSphere Content Manager
- D. Intelligent InfoSphere Analyzer

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 36

What POWER8 enhancement provides greater RAS compared to prior generations of Power Systems?

- A. First Failure Data Capture
- B. Larger L3 memory cache modules
- C. Redundant system clocks
- D. Spare data lane on each fabric bus

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 37

In addition to an S822L, what is a component of the IBM solution for Hadoop?

- A. DCS3700
- B. Flash System 840
- C. ESS
- D. DS8870

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 38

Which benefit does PowerCare provide?

- A. Five years of 24 by 7 hardware and software maintenance
- B. Total Solution discounts
- C. Techline support
- D. Consulting at no additional charge

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www-03.ibm.com/systems/power/support/powercare/>(See the Highlights)

### QUESTION 39

A client is considering deploying an HPC workload leveraging NVIDIA's K40 GPUs on the S824L.

Which Linux distribution is supported?

- A. Ubuntu
- B. OpenSUSE
- C. Fedora
- D. Debian

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<https://www.google.com.pk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0CCQQFjAB&url=https%3A%2F%2Fwww.ibm.com%2Fdeveloperworks%2Fcommunity%2Fwikis%2Fform%2Fanonymous%2Fapi%2Fwiki%2F61ad9cf2-c6a3-4d2c-b779-61ff0266d32a%2Fpage%2F1cb956e8-4160-4bea-a956-e51490c2b920%2Fattachment%2Ffb29451f-57c4-480e-a1ff-3010cbb7723e%2Fmedia%2FAIX%2520VUG%2520P8%2520Announce.pdf&ei=FpA3Va2zLuPnywPehlGIBQ&usg=AFQjCNGiy59ajXNftQwxJI0qCxsfzyhVqQ&bvm=bv.91071109,d.bGQ> (See the Page #13).

### QUESTION 40

Which POWER8 processor feature was announced to deliver balanced system performance?

- A. EnergyScale Technology
- B. TPMD (Thermal Power Management Device)
- C. Level 4 (L4) cache
- D. 20 partitions per core

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 41

When utilizing dual VIO Servers, which of the following simplifies storage management for the system administrator in a Fiber Channel SAN environment?

- A. SAS
- B. SSD
- C. vSCSI
- D. NPIV

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp4815.pdf>

#### QUESTION 42

What is the minimum amount of rack space that an 80 core E870, without any I/O drawers, will take up in a 19 inch rack?

- A. 8U
- B. 22U
- C. 12U
- D. 10U

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.xrackpro.com/19-Inch-Server-Rack-s/33.htm>

## QUESTION 43

What feature of the POWER7 processor design allows the system to recover from soft or transient errors in the processor core?

- A. First Failure Data Capture
- B. Processor Instruction Retry
- C. Single Processor Checkstop
- D. Alternate Processor Recover

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 44

A customer is purchasing a new POWER8 Server and will make a choice between PowerVM and PowerKVM.

What is an advantage of PowerVM over PowerKVM?

- A. NPIV support
- B. M R-IOV support

- C. Memory Deduplication
- D. Micro Threading

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

Which POWER8 feature can provide increased system performance?

- A. TPMD (Thermal Power Management Device)
- B. CAPI
- C. POWER7 processor mode
- D. Energy Scale Technology

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

A customer who plans to purchase a pair of Power 740 systems is researching which operating system would best fit the needs of the organization. Much of the corporate workload will be based on many instances of databases.

Which of the following operating systems includes a built-in database?

- A. AIX
- B. z/OS
- C. IBM i
- D. Linux

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

A customer has two Power E870 systems and requires Power Enterprise Pool implementation.

What is required to implement the solution?

- A. License Key
- B. Redundant HMCs
- C. A configuration files from IBM
- D. Fully populated memory slots

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&apname=gplateam&supplier=877&letternum=ENUSZG14-0262>

#### **QUESTION 48**

Which feature will help prevent a system outage in the event of an uncorrectable error in memory being used by the hypervisor?

- A. Active Memory Expansion
- B. Active Memory Mirroring
- C. Active Memory Protection
- D. Active Memory Sharing

**Correct Answer:** B



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://www.ibm-systemsmag.com/power/trends/ibmannouncements/enterprising-power8/?page=2>

Explanation: Active Memory Mirroring for Hypervisor, which helps prevent system outages in the event of an uncorrectable error in memory being used by the hypervisor

#### **QUESTION 49**

A customer would like to add a second HMC to an environment which consists of multiple POWER7 and POWER8 systems.

Which of the following is a requirement for both HMCs to be able to manage all the systems?

- A. All the POWER7 systems must be at the same firmware level.
- B. Both HMCs must be on the same HMC VLAN.
- C. Each HMC must be on a dedicated HMC VLAN.
- D. Both HMCs must be at the same code level.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

Which statement applies to Active Memory Sharing (AMS) as compared to Active Memory Expansion (AME)?

- A. Supported with AIX 6.1 and PowerVM Standard
- B. Supported with AIX 5.3 and PowerVM Standard
- C. In-memory data is compressed for enabled partitions

D. Memory is dynamically allocated between enabled partitions

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 51

Which hardware can be moved from a 770 to an E870 when doing a migration?

- A. PCIe 5802/5877 I/O drawer
- B. EXP24S SFF Gen2-bay drawer
- C. Memory DIMMs
- D. EXP30SSD I/O drawer

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 52

Which of the following is a feature in PowerVM?

- A. Hard capping of VM
- B. Active Memory Expansion
- C. SR-IOV adapter support
- D. Processor Micro-Threading

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

[http://www.ibmssystemsmag.com/aix/administrator/virtualization/powervm\\_features/](http://www.ibmssystemsmag.com/aix/administrator/virtualization/powervm_features/)

### QUESTION 53

Which Ethernet virtualization technique supports Live Partition Mobility on POVVER8?

- A. IVE/HEA
- B. SEA
- C. vSwitch
- D. SR-IOV

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 54

Which option, available in Power 710 and 720, makes them more desirable choices for smaller workloads at better prices, when compared to Power 730 and 740?

- A. Power 710 and 720 offer split backplane option but 730 and 740 do not.
- B. Power 710 and 720 offer 4 core processor option but 730 and 740 do not.
- C. Power 710 and 720 come in a 2U form factor but 730 and 740 are 4U only.
- D. Power 710 and 720 come in single chassis option but 730 and 740 need second CEO.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 55

A customer needs to run a Linux application which is available for both x86 and Power processors. What is an advantage of a PowerLinux JR1 solution versus an x86 solution?

- A. More memory bandwidth
- B. More utilities are compiled for Power vs x86
- C. Virtual machines can be moved between PowerLinux servers
- D. PowerVM on PowerLinux systems uses Single Level Storage

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 56

Which component of IBM Cloud Manager with OpenStack allows clients to automate how they build, deploy, and manage their infrastructure?

- A. Chef
- B. Nova
- C. Neutron
- D. Cinder

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<https://www.google.com.pk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&cad=rja&uact=8&ved=0CCMQFjAC&url=https%3A%2F%2Fwww-304.ibm.com%2Fconnections%2Ffiles%2Fbasic%2Fanonymous%2Fapi%2Flibrary%2F5b9d8e8f-5808-4fca-ab24-d61cbf7957a6%2Fdocument%2Fbb8062bc-04b6-4c6a-82ae-685ceb8cfb28%2Fmedia&ei=0bw2VfadFcr4ywPI-oDwDg&usg=AFQjCNFqp4HNQgonjrSw7C9f9of9RAUSAg&bvm=bv.91071109,d.bGQ>

#### QUESTION 57

What primary advantage does Integrated Facility for Linux (IFL) provide for the customer?

- A. PowerKVM is included with IFLs
- B. Accelerated Linux performance
- C. Lower system software prices
- D. Lower hardware maintenance charges

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [http://www.novell.com/docrep/2012/02/sles\\_for\\_system\\_z\\_faq.pdf](http://www.novell.com/docrep/2012/02/sles_for_system_z_faq.pdf)

Explanation: The Integrated Facility for Linux, or IFL for short, is a specialty engine for the IBM mainframe dedicated to running Linux with or without z/VM. IFLs are one of three types of mainframe processors expressly designed to reduce software costs

#### **QUESTION 58**

A customer wants to provide storage to 16 partitions on a new E880. Each partition requires at least 10 individual LUNs. The customer has strong skills with SAN administration, but only moderate skills with VIO Server.

Which technology is the best recommendation based on the customer skill set?

- A. SVC
- B. NPIV
- C. vSCSI
- D. MPIO

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

What VIOS Shared Storage Pool feature is used to rapidly recover data to a previous point in time?

- A. Mirror Copy
- B. Linked Clone/Recovery
- C. Client VM disks snapshot
- D. VM Storage Snapshots/Rollback

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.ibm.com/developerworks/aix/library/au-aix-vios-clustering/>

## QUESTION 60

An IBM client has an existing POWER6 570. The client is upgrading to a POWER7+ 770. Which asset can be re-utilized in the new configuration?

- A. PCIe 1 2X I/O Drawer
- B. DDR2 memory DIMMS
- C. SCSI disks in disk bays
- D. SCSI PCI-X disk adapters

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 61

Which feature of Shared Storage Pools allows a customer to allocate disk space to a client partition, but only allocate real disk blocks when they are actually used?

- A. Flash copy
- B. Linked clones
- C. Tiered storage
- D. Thin provisioning

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 62

A customer has a 6-core Power 720 installed in a rack. The Power 720 has all internal disk bays populated.

The customer is considering adding Solid State Drives (SSDs) in a 12X I/O drawer.

Assuming the I/O drawer will fit in available rack space, what else must be considered?

- A. Number of cores
- B. Type of backplane
- C. Adapter height profile
- D. Number of PCI slots in the system

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 63

A customer is running an internal cloud and would like to have the ability to activate and deactivate processor cores on their E880 for peak processing periods throughout the year and to help control cost.

Which feature is required?

- A. Capacity Upgrade on Demand
- B. Elastic Capacity on Demand
- C. Enterprise Capacity Pools
- D. Mobile Capacity on Demand

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/redpapers/pdfs/redp5137.pdf>

#### **QUESTION 64**

Which of the following documents is designed to mitigate risk as part of the acquisition of a new E880?

- A. SSIC Listing
- B. TDA Checklist
- C. Site Evaluation
- D. Power Estimator

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

Which feature of the POWER8 processor can be used to improve performance in a Websphere Application Server environment compared to an x86 processor?

- A. Transactional Memory (TM)
- B. CAPI



- C. Agnostic Memory interface
- D. L4 cache

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: Reference; <http://whywebsphere.com/2015/02/27/ibm-websphere-application-server-beats-oracle-weblogic-with-record-specjenterprise-2010-benchmark-result-on-latest-intel-haswell-ep-processors/>

#### **QUESTION 66**

A customer is considering adding more workloads to their production 6-core Power 720. The server already has several IBM i LPARs with dedicated resources.

What information would help the technical representative determine the upgrade configuration needed?

- A. A current system plan
- B. An ASMI hardware report  
A print screen of the system properties
- C. A system configuration list generated from the HMC

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 67**

A customer has an E880. They are considering using Power Enterprise Pools.

What is the maximum percentage of installed memory that can have mobile activations?

- A. 75%

- B. 25%
- C. 100%
- D. 50%

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.redbooks.ibm.com/abstracts/tips1169.html?Open>

## QUESTION 68

Compared to Intel, which of the following is an advantage of POWER7+ processor technology for memory optimization?

- A. AME
- B. FCC
- C. L3 Cache
- D. Out of Order Execution

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 69

A customer with several Power 770 systems runs a mixed production environment of Linux, AIX, and IBM i. They would like to purchase a single Power E880 for high availability, but are concerned about software licensing costs for IBM i.

How can the customer reduce the cost of IBM i licenses for the E880?

- A. Enter the IBM i software keys from one of the production systems within 70 days of the failover.
- B. Use PowerHA System Mirror to transfer the licenses when needed.

- C. Designate the system as Capacity BackUp (CBU) for IBM i.
- D. Use DLPAR to add already-activated cores to the IBM i partitions only when needed.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 70

Comparing the POVER7+ 750 with the Power 760, which of the following differentiates the systems?

- A. Form factor
- B. Customer Installation
- C. Dual Chip processor module
- D. Memory Capacity Upgrade on Demand

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 71

A customer has a tape drive directly connected to a 8Gb FC adapter to one LPAR which now needs to be shared between four LPARs. Network and storage are being accessed through NPIV and SEA.

In addition to assigning the adapter to the VIOS, what else needs to be done?

- A. Reassign the tape to client LPARs as needed.
- B. Assign the tape drive to the partitions.
- C. Complete the NPIV connectivity and map the tape to client partitions.
- D. Complete the vSCSI connectivity and map the tape to client partitions.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 72

Active Memory Mirroring is a POWER7 RAS feature that eliminates outages due to uncorrectable errors in which of the following?

- A. DDR3 memory
- B. Cache memory
- C. Partition memory
- D. Hypervisor memory

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 73

A customer has a Power 740 system with dual VIO Servers and a split backplane. The customer wants to use the integrated DVD drive to load AIX and IBM i on various LPARs. Which technology supports DVD virtualization?

- A. NFS
- B. NPIV
- C. vSCSI
- D. DLPAR

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which of the following differentiates the capabilities of IBM Cloud Manager with OpenStack from PowerVC?

- A. Deploys images within the image repository with policy based placement.
- B. Provides virtual machine relocation.
- C. Captures existing virtual machines as images within the image repository.
- D. Generates custom expiration policies for each virtual machine.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

<https://www.ibm.com/developerworks/servicemanagement/cvm/sce/i/IBMCloudManagerwithOpenStack.pdf> (See Page #33, 3rd point).

**QUESTION 75**

A customer has purchased a POWER8 server and will deploy dual VIO servers to provide virtualized access to storage and networking. The customer has skills in both managing Power Systems and Storage.

The system contains two 4Gb FC adapter. A V7000 will be used for storage.

Which virtualization technology would be used to present storage to the client partitions?

- A. FCoE
- B. NPIV
- C. vSCSI
- D. RoCE

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 76

Comparing an Oracle Exadata to an E870, what advantage does an E870 have when compared to the Exadata?

- A. E870 supports the Oracle 12c database.
- B. E870 provides an ability to add cores and memory in a more granular manner.
- C. E870 provides more cores for greater scaling.
- D. E870 adds support for external storage.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 77

A customer wants to minimize the number of Fibre Channel adapters located in a system node. Slots in a PCIe I/O expansion drawer are not available.

Which supported adapter provides the maximum number of ports?

- A. 4-port 10Gb
- B. 4-port 8Gb
- C. 4-port 4Gb
- D. 4-port 16Gb

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gpatteam&supplier=897&letternum=ENUS114-160>

Explanation: PCIe2 8Gb 4-port Fibre Channel Adapter

**QUESTION 78**

A customer has older generations of Power servers that they want to manage with their E870 server from the same 7042-CR8 HMC running V8R8.2.0.

What is the earliest Power server generation that is supported with this HMC level?

- A. POWER7
- B. POWER4
- C. POWER5
- D. POWER6

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

A customer has a Power 720 with one expansion drawer, running IBM i 7.1. The customer needs to attach to a DS8000 using NPIV. The CEO has no available adapter slots.

Which of the following is required to support the DS8000?

- A. 8Gb 4-port PCIe FC adapter
- B. 4Gb 2-port PCIe FC adapter
- C. 8Gb 2-port PCIe FC adapter
- D. 10Gb 2-port PCIe FCoE adapter

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## **QUESTION 80**

A customer wants to use SAS drives for dual VIOS boot on their E880 running AIX.

Which option will support their requirement?

- A. CAPI attached flash.
- B. EXP24S with at least two disks.
- C. Split backplane option with at least two SAS disks.
- D. FCoE and DS3000 with at least two disks.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## **QUESTION 81**

A new customer has a requirement to analyze the effects of activating two cores on an E870 and 32GB of memory for one month.

What is the most cost-effective Capacity on Demand (CoD) offering that would satisfy this requirement?

- A. On/Off
- B. Elastic
- C. Utility
- D. Trial

**Correct Answer: B**

**Section: (none)**



## Explanation

### Explanation/Reference:

Reference: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gplateam&supplier=897&letternum=ENUS114-160>

Explanation: If a Power E870 system node uses the IBM i operating system and the temporarily activated cores were used for IBM i partitions, you must inform the sales team placing the billing feature order which operating system caused the temporary elastic CoD processor use so that the correct feature can be used for billing.

## QUESTION 82

Which of the following is a requirement for Live Partition Mobility?

- A. All storage I/O must be virtualized with NPIV.
- B. Both the source and target servers must be managed by the same HMC.
- C. The operating system must boot from LUNs accessible through both VIO Servers.
- D. The LPAR to be moved must be running AIX 5.2 (or later), IBM i 6.1 .1 (or later), or Linux.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 83

A customer is implementing redundant HMCs for managing multiple Power Systems servers using the following requirements:

- 2 HMCs
- 5 managed systems
- DLPAR will be used on the managed systems
- HMCs must be accessible on an open network
- FSPs are only accessible by a private network

What is the minimum number of Local Area Networks needed?

- A. 2
- B. 3
- C. 4
- D. 5

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 84**

Which of the following describes a capability of PowerVC?

- A. Simplifies cloud administration with a self-service user interface.
- B. Clones, copies, and relocates Power Systems virtual machines.
- C. Provides isolation of users and projects through a common portal.
- D. Provides metering and billing reports.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 85**

A POWER6 customer is considering an upgrade to a new Power System, and needs to ensure availability at a DR site. The recovery point must be as close to current as possible without going to continuous availability. Recovery time must be less than four hours.

What should be proposed to the customer?

- A. Utilize a dual VIOS system to provide redundancy.

- B. Utilize PowerHA to replicate the server and storage to a backup system and manage the failover.
- C. Create a PowerVM configuration that has two instances of the server with Power mirrored storage.
- D. Create a clustered system with a Primary and backup system using a single SAN attached storage device.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**