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Vendor: IBM

Exam Code: C4040-252

Exam Name: Power Systems with POWER8 Enterprise
Technical Sales Skills V1

Version: Demo

QUESTION 1

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

Explanation

QUESTION 2

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

Explanation

QUESTION 3

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

Explanation

Explanation/Reference:

Reference: 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 4

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

Explanation

Explanation/Reference:

Reference: [http://www-01.ibm.com/common/ssi/cgi-](http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=an&subtype=ca&appname=gpateam&supplier=897&letternum=ENUS114)

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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 5

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

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 6

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

Explanation

Explanation/Reference:

Reference: http://www.cutaiwan.com/uploads/IBM_201421222438.pdf

QUESTION 7

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

Explanation

QUESTION 8

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

Explanation

Explanation/Reference:

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

QUESTION 9

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

Explanation

Explanation/Reference:

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

QUESTION 10

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

Explanation

Explanation/Reference:

Reference: http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=PM&subtype=SP&htmlfid=POS03135USEN&appname=TAB_2_2_Appname#loaded

QUESTION 11

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

Explanation

QUESTION 12

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
Explanation

QUESTION 13

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
Explanation

Explanation/Reference:

Reference:

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

QUESTION 14

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
Explanation

Explanation/Reference:

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 15

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

Explanation

Explanation/Reference:

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

QUESTION 16

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

Explanation

Explanation/Reference:

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

QUESTION 17

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

Explanation

Explanation/Reference:

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

QUESTION 18

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

Explanation

Explanation/Reference:

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

QUESTION 19

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

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