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000-209

IBM

SVC/Virtualization V.1

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Exam Name:	SVC/Virtualization V.1		
Exam Type:	IBM	Exam Code:	000-209
Certification:	Advanced Technical Expert	Total Questions:	160

Question: 1

A customer purchased an IBM SVC solution from a Business Partner. In physical installation processes, which action can be the last step to complete?

- A. Provide power, LAN, and SAN connectivity
- B. Complete the customer training for SVC administrators
- C. Upgrade host, SAN, and disk server code to SVC supported levels
- D. Conduct a pre-install Solution Assurance Review (SAR) with Business Partner, IBM, and customer

Answer: B

Question: 2

What should be considered when designing an IBM SVC solution for a customer who needs disaster recovery?

- A. Number of HBAs and distance between sites
- B. Number of HBAs and copy services software
- C. Distance between sites and copy services software
- D. Distance between sites and 10Gb Ethernet connections

Answer: C

Question: 3

How many Flash Copy targets per source are supported in SVC 4.2.1?

- A. 2
- B. 8
- C. 16
- D. 32

Answer: C

Question: 4

What happens if an MDisk is deleted from an MDisk Group (MDG) using the `rmmdisk porce` command?

- A. Any extents on the MDisk are deleted along with the MDisk.
- B. An error message is displayed that indicates an MDisk that contains extents cannot be deleted.
- C. Any extents on the MDisk are migrated off the MDisk (to other MDisks in the MDG) prior to its deletion.
- D. If there are any extents on the MDisk, the option is provided to migrate them to other MDisks before they are deleted.

Answer: C

Question: 5

If more than one error occurs during an operation, which SVC system error code is displayed on the front panel?

- A. The latest detected error
- B. The error with the lowest priority
- C. The error with the highest priority
- D. No error code is displayed. The "Check Log" is shown.

Answer: C

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Question: 6

Which error notification settings are valid?

- A. All, Critical Only, and None
- B. All, Hardware Only, and None
- C. Complete, Informational, and None
- D. All, Hardware Only, and Software Only

Answer: B

Question: 7

Which statement is true about the latest software for the SVC?

- A. You must order the software from IBM.
- B. It can be found on the SVC Master Console.
- C. Software is automatically downloaded to the SVC.
- D. It can be found on the website <http://www.ibm.com/storage/support/2145>.

Answer: D

Question: 8

Which platform is NOT supported by IBM SVC?

- A. Windows
- B. HP-UX 10
- C. VMWare ESX
- D. Red Hat Linux Enterprise Server

Answer: B

Question: 9

A customer has implemented an IBM SVC solution. Which migration option is available to the customer?

- A. Migrate an image mode VDisk to a smaller VDisk
- B. Migrate two VDIs to one VDisk with an appropriate extent size
- C. Migrate a VDisk to multiple VDIs with appropriate extent sizes
- D. Migrate a VDisk from disk subsystem A to subsystem B with appropriate extent sizes

Answer: D

Question: 10

What is a best practice when implementing IBM SVC?

- A. The cluster should be in the same UPS power domain.
- B. The switches should be cascaded to become one fabric.
- C. The hosts and SVC nodes should be configured in one zone.
- D. The storage device and SVC nodes should be configured in one zone.

Answer: D

Question: 11

Which module is needed for collecting SVC performance data with Total Storage Productivity Center (TPC)?

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- A. TPC for Disk
- B. TPC for Data
- C. TPC for Fabric
- D. TPC for Performance

Answer: A

Question: 12

What is the advantage of IBM SVC when compared to EMC In vista, HDS Universal Storage Platform-V and HP XP10000?

- A. Lower entry price
- B. METRO Mirror functionality
- C. Capacity support up to 2PB
- D. Interoperability with Brocade SAN switches

Answer: A

Question: 13

When installing an IBM SVC, what is the best way to ensure data availability?

- A. Use VSANs to balance the I/O load
- B. Use switch zoning to balance the I/O load
- C. Use one storage subsystem per MDisk group
- D. Use the 4Gb data rate on the Fibre Channel for I/O

Answer: C

Question: 14

Which statement is true about VDIs in the IBM SVC?

- A. A VDisk can be created on MDisks from multiple Managed Disk Groups (MDGs).
- B. To move a VDisk from one I/O Group to another I/O Group is non-disruptive.
- C. A VDisk can be migrated from Managed Disk Group (MDG) to MDG with the same extent size.
- D. A VDisk can be migrated from Managed Disk Group (MDG) to MDG with different extent sizes.

Answer: C

Question: 15

What is the maximum number of IBM SVC nodes supported in a cluster?

- A. 4
- B. 8
- C. 12
- D. 16

Answer: B

Question: 16

Which two provide primary power redundancy for the IBM SVC? (Choose two.)

- A. The redundant power supplies of the nodes
- B. The customer's existing power infrastructure

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- C. One external UPS included with the SVC hardware
- D. Two external UPSs included with the SVC hardware

Answer: A, C

Question: 17

Which CLI command generates a list of only unfixd errors in the system, when performing maintenance on an SVC system?

- A. Svctask finderr
- B. Svctask settrace
- C. Svctask chcluster
- D. Svctask dumperrlog

Answer: A

Question: 18

A customer wants to put an IBM SVC in front of their EMC Symmetrix. Which multi-path driver is required?

- A. SDD
- B. RDAC
- C. PVLinks
- D. Power Path

Answer: A

Question: 19

What is always the first step that should be taken before starting the software upgrade process on an SVC?

- A. Check for degraded VDisks
- B. Ask for a maintenance window
- C. Set the config node to offline
- D. Ensure that all hosts are online

Answer: A

Question: 20

Which multipathing software option is NOT supported when running Solaris 10 on Sparc servers attached to SVC?

- A. SDD
- B. DMP
- C. DMMP
- D. MPxIO

Answer: C

Question: 21

What happens if the maximum number of single extent migrations for an MDisk is reached and additional extent migrations are attempted?

- A. Further migrations are queued, pending the completion of one of the currently running migrations.
- B. If there are migrations with a lower priority running, they are suspended to allow the higher priority migration to occur.

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- C. The process fails and an error message is displayed alerting the user that the maximum number of migrations has been reached.
- D. The process fails and the user needs to check the log for the error message that indicates the maximum number of migrations has been reached.

Answer: A

Question: 22

A customer reports an error seen in the error log. The option "Run Maintenance Procedures" does not show in this error. What is the reason?

- A. The maintenance procedure shows only green marked errors.
- B. The system requires 45 minutes to recognize and rerun the maintenance procedure.
- C. The error log shows a green symbol. Fixed errors are not listed when running the maintenance procedure.
- D. The option "Run Maintenance Procedures" performs a system analysis independently from the error log. The error log does not contain the latest data.

Answer: C

Question: 23

Which statement about Metro Mirror in IBM SVC environments is true?

- A. IntraCluster Metro Mirror can be applied within a single I/O Group.
- B. InterCluster Metro Mirror can cover distances over 37km without any repeater.
- C. IntraCluster Metro Mirror can be applied between two I/O Groups within a cluster.
- D. IntraCluster and InterCluster Metro Mirror can be intermixed within the same relationship.

Answer: A

Question: 24

A customer is running two IBM SVC sites with a total of 10TB mirrored capacity. Due to new demands on their primary site, the customer needs to increase capacity by 5TB (non-mirrored). Which licenses cover this change?

- A. Storage Software Usage of 15TB, Metro Mirror Usage of 10TB
- B. Storage Software Usage of 15TB, Metro Mirror Usage of 15TB
- C. Storage Software Usage of 10TB, Metro Mirror Usage of 10TB
- D. Storage Software Usage of 20TB, Metro Mirror Usage of 20TB

Answer: A

Question: 25

Which protocol does the IBM SVC use to communicate with the attached hosts?

- A. IP
- B. FTP
- C. FCP
- D. SSH

Answer: C

Question: 26

A customer is installing their second IBM virtualization solution. It is a four-node IBM SVC cluster. How many IP addresses are required?

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

Answer: A

Question: 27

What is the minimum extent size that can be created?

- A. 8MB
- B. 16MB
- C. 64MB
- D. 512MB

Answer: B

Question: 28

A customer has a performance problem with an IBM SVC. Using the maintenance procedure, they discover that one of the nodes in the SVC cluster is down. They initiate a support call to IBM to help troubleshoot the problem. Under which severity level should a PMR be opened, according to IBM guidelines?

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

Answer: B

Question: 29

A customer wants to virtualize disk storage resources with IBM SVC. The current environment consists of multiple Intel servers running Microsoft Windows 2003 and Linux, and an IBM System i. The Intel servers use storage capacity provided by an IBM FASTT900, an EMC Clariion CX 500, and an IBM DS6000. The IBM System i uses internal storage as well as storage provided by the IBM DS6000. How can System i storage requirements be handled in the virtualized environment?

- A. SVC cannot virtualize external System i storage resources.
- B. SVC can virtualize System i external storage capacities on DS6000 only.
- C. SVC cannot virtualize System i storage resources unless it is dedicated to System i storage.
- D. SVC can virtualize all System i storage resources, System i internal storage and DS6000 based external storage.

Answer: A

Question: 30

As part of the SVC installation process new SSH keys must be created. Which tool is used to create SSH keys?

- A. PuTTYGen
- B. PuTTYKey
- C. PuTTYSSH
- D. PuTTYUtil

Answer: A

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Question: 31

In which fixed unit size is data migrated?

- A. 4MB
- B. 8MB
- C. 16MB
- D. 32MB

Answer: C

Question: 32

What is the correct order of actions to upgrade SVC console and firmware from 4.1 to 4.2?

- A. 1.install latest SVC console code
2. uninstall IBM Director
3. uninstall SVC console code
4. upgrade SVC firmware
- B. 1.uninstall SVC console code
2. uninstall IBM Director
3. install latest SVC console code
4. upgrade SVC firmware
- C. 1.uninstall SVC console code
2. install latest SVC console code
3. upgrade SVC firmware
4. uninstall IBM Director
- D. 1.uninstall IBM Director
2. uninstall SVC console code
3. install latest SVC console code
4. upgrade SVC firmware

Answer: D

Question: 33

What is the impact of one node failing in an IBM SVC two-node cluster running Flash Copy and Metro Mirror?

- A. The SVC cache is utilized and only one node is available for processing I/O requests.
- B. Only one node is available for processing I/O requests and Flash Copy and Metro Mirror are suspended.
- C. The SVC cache is set to write-through mode and Flash Copy and Metro Mirror are switched to the other node.
- D. Only one node is available for processing I/O requests and the VDisk owned by the failing node moves to another IO Group.

Answer: C

Question: 34

A customer has an IBM SVC with 16TB of virtualized storage under its control. At their disaster recovery site, they have another SVC with 8TB of storage under its control. The customer has 4TB of virtual disks configured and allocated to host servers at their primary site that they want to Metro Mirror to the remote site. The customer also has 2TB of virtual disks configured and allocated to host servers that they want to copy within the primary site cluster. The virtual disks are only half populated with data by the host servers. What is the minimum Metro Mirror license that is required by this customer at the primary site and the remote site?

- A. Up to 4TB at the primary site and up to 2TB at the remote site
- B. Up to 8TB at the primary site and up to 4TB at the remote site

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- C. Up to 16TB at the primary site and up to 4TB at the remote site
- D. Up to 16TB at the primary site and up to 8TB at the remote site

Answer: B

Question: 35

What is the maximum number of extents that can be concurrently migrated in a single migration operation?

- A. 2
- B. 4
- C. 6
- D. 8

Answer: B

Question: 36

A customer wants to use copy services of their underlying storage controller instead of the SVC copy services. Which type of VDisk is required to accomplish this?

- A. Cache-enabled striped VDisk
- B. Cache-disabled striped VDisk
- C. Cache-enabled image mode VDisk
- D. Cache-disabled image mode VDisk

Answer: D

Question: 37

Which devices can be managed by TPC with the CIM Agent installed on the SVC Master Console?

- A. Only IBM SVC devices
- B. Only IBM DS4000 devices
- C. Only IBM DS6000 and IBM DS8000 devices
- D. IBM DS4000, IBM DS6000, IBM DS8000 devices, and SVC devices

Answer: A

Question: 38

The VDisks in an IBM SVC must be expanded to allow for application consolidation. If the application data are in use, which native host operating systems can manage the VDisk expansion?

- A. SUN and W2K
- B. AIX and W2K
- C. SUN and HP-UX
- D. HP-UX and AIX

Answer: B

Question: 39

A customer is adding a new cluster to an existing IBM SVC environment. Which process must be completed to manage the new SVC cluster with the Master Console?

- A. Store the name of the new cluster on the Master Console
- B. Store the IP address of the Master Console on the new cluster

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- C. Store the SSH public key of the Master Console on the new cluster
- D. Store the SSH public key of the new cluster on the Master Console

Answer: C

Question: 40

Which zones are required when implementing an IBM SVC solution?

- A. Only SVC-Host zones and SVC-Disk zones are required.
- B. SVC-Host zones, SVC-Disk zones, and an SVC-Cluster zone are required.
- C. SVC-Host zones are required. The disk controllers can be attached directly to the SVC cluster.
- D. SVC-Host zones and an SVC-Cluster zone are required. The disk controllers can be attached directly to the SVC cluster.

Answer: B

Question: 41

A customer wants to automate using a script file to quiesce a database application; start the Flash Copy process; and restart the database application. Which IBM SVC component is used to accomplish this?

- A. IBM Director on the Master Console
- B. IBM Tivoli SAN Manager on the Master Console
- C. SVC CLI with SSH from a network attached host
- D. The Master Console scheduler to kickoff the SVC CLI script file

Answer: C

Question: 42

What is the maximum storage capacity that can be managed by one IBM SVC cluster with version 4.2.1?

- A. 1PB
- B. 2PB
- C. 8PB
- D. 512TB

Answer: C

Question: 43

A customer needs to add 20TB of usable disk storage to their SAN. They require RAID 1 or RAID 10 disk arrays to meet their performance needs. They will implement remote copy to a disaster recovery site 10 kilometers away. They expect more than 100 source volumes to copy. Which solution best meets this customer's needs?

- A. IBM N7800
- B. IBM DS4200
- C. IBM SVC with HDS 9920
- D. IBM SVC with IBM DS4700

Answer: D

Question: 44

What is the advantage of SVC over Hitachi TagmaStore?

- A. It is a standalone appliance.

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- B. It scales to very large environments.
- C. It supports multiple dissimilar storage subsystems.
- D. It provides redundant paths to storage and host systems.

Answer: A

Question: 45

A customer is implementing an IBM SVC and is planning the SAN zoning requirements. What should be considered when zoning for the SVC?

- A. Hosts, SVC nodes, and disk subsystems must be in the same zone.
- B. Zoning must ensure that a VDisk is not seen more than eight times by a host.
- C. Zoning must ensure that a host sees only the node that owns its VDisk in the IO Group.
- D. For PPRC, the two clusters must be zoned so that the nodes in each cluster cannot see the ports of the nodes in the other cluster.

Answer: B

Question: 46

Which action can NOT be performed using the SVC command "svctask chrcrelationship"?

- A. Change the name of a consistency group
- B. Add a relationship to a consistency group
- C. Change the name of a Metro Mirror relationship
- D. Remove a relationship from a consistency group, using the flag

Answer: A

Question: 47

Which host can NOT use IBM SVC?

- A. AIX
- B. Windows
- C. z/OS (native)
- D. Linux on z/OS

Answer: C

Question: 48

A customer plans to add an IBM SVC and an IBM DS4700 Storage Server to their existing SAN network. What is used in order for the new storage to be seen by the hosts?

- A. IBM DS4000 Storage Manager and IBM SVC Master Console only
- B. IBM DS4000 Storage Manager and IBM Productivity Center for Data only
- C. IBM SVC Master Console, IBM Productivity Center for Data and IBM Director only
- D. IBM DS4000 Storage Manager, IBM SVC Master Console, and IBM Productivity Center for Data

Answer: A

Question: 49

Which device multipath driver does NOT co-exist with SDD in an IBM SVC environment?

- A. RDAC

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- B. PVlinks
- C. Power Path
- D. Symantec / Veritas DMP

Answer: C

Question: 50

Which product is an in-band virtualization solution?

- A. IBM SVC
- B. EMC Invista
- C. Incipient iNSP
- D. Hitachi Universal Platform Storage -V

Answer: A

Question: 51

A new zone on a IBM 2005-B32 is created and one link from a physically attached IBM SVC is down. What should be done to fix the problem?

- A. Determine the root cause by following "MAP 5600 Fibre Channel"
- B. Run the GUI-option "Run Maintenance Procedures" to reset the inactive links
- C. Check the link speed on the SVC side; change to the same fixed value as set in the IBM 2005- B32
- D. Check to ensure the cable is plugged in correctly; reboot the IBM 2005-B32 to allow the link to log in

Answer: B

Question: 52

Which command provides information to determine a possible root cause for Flash Copy stopping unexpectedly?

- A. Svcinfo lsvdisk
- B. Svcinfo lscluster
- C. Svcinfo lserrlogdumps
- D. Svcinfo lshostvdiskmap

Answer: A

Question: 53

Which method is used to launch the GUI of an SVC cluster?

- A. Start a remote desktop connection to the SVC cluster from the SVC Master Console
- B. On the Windows desktop of the SVC Master Console PC, double-click "Launch the SAN Volume Controller Console"
- C. Launch a browser and enter the following URL: where <SVCclusterIP> is the IP address of the SVC cluster:
http://<SVCclusterIP>:9080/ica
- D. Within the SVC Master Console GUI,select the SVC cluster and the action "Launch the SAN Volume Controller Console", then click the GO button

Answer: D

Question: 54

A customer is running an SVC Solution with Brocade switches in two locations. According to best practices, which option presents all the zone definitions that are necessary to run a mirroring solution between data centers?

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- A. Host zone Storage zone SVC zone including all ports on site A and site B SVC zone including all ports on site B
- B. SVC zone including all ports on site A SVC zone including all ports on site B SVC zone including all ports of both sites on site A SVC zone including all ports of both sites on site B
- C. Storage zone SVC zone including all ports on site A SVC zone including all ports on site B SVC zone including all ports of both sites on site A SVC zone including all ports of both sites on site B
- D. Host zone Storage zone SVC zone including all ports on site A SVC zone including all ports on site B SVC zone including all ports of both sites on site A SVC zone including all ports of both sites on site B

Answer: D

Question: 55

What is NOT affected by the installation of an IBM SVC?

- A. SAN fabric zoning
- B. Application software levels
- C. Disk subsystem configuration
- D. Ethernet network configuration

Answer: B

Question: 56

What is the maximum number of Flash Copy targets per source for IBM SVC V4.3?

- A. 16
- B. 128
- C. 256
- D. 512

Answer: C

Question: 57

The LPD panel on an SVC 8G4 node shows the LEDs for FAN and TEMP illuminated, but I/O through the node still operates normally. What should you do to remedy this problem?

- A. You ignore the LEDs because the node works well, but reboot the node to set these two LEDs to offline.
- B. A fan has failed, is too slow, or has been removed and has caused the TEMP LED to be lit. You replace the failing fan and ignore the TEMP LED because it has been triggered by the FAN LED.
- C. You press the RESET button on the LPD panel and see if FAN and TEMP LEDs stay illuminated. If they go offline, there is no fan or temperature problem. If they are illuminated again, you reseal the fan.
- D. A fan has failed, is too slow, or has been removed and has caused the TEMP LED to be lit. The ambient temperature could be too high. You replace the failing fan, ensure that the ambient temperature is within normal operating specifications, and make sure that the airflow in and around the SVC node is not obstructed. You replace the frame assembly if the TEMP LED remains lit.

Answer: D

Question: 58

What is a valid password for the SVC GUI?

- A. Pass_w0rd
- B. -Passw0rd
- C. Passw0rd?

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D. Pass w0rd

Answer: A

Question: 59

What is required for TPC performance data collection of an IBM SVC?

- A. A direct FC connection TPC to SVC is needed.
- B. The SVC Master Console needs a TPC data agent.
- C. An IP connection TPC to SVC Master Console is needed.
- D. An FC connection TPC to the SAN switch where SVC is connected is needed.

Answer: C

Question: 60

A customer wants to double available storage capacity. They have a two-node IBM SVC with switches, disks, and servers. In addition to doubling the switches, which solution can double storage capacity without losing performance?

- A. Double the SVC nodes
- B. Add a second SVC Master Console
- C. Double the SVC HBAs and add a second SVC Master Console
- D. Add a second SVC Master Console and double the SVC nodes

Answer: A

Question: 61

Which statement is true about what is supported by IBM SVC, Data core SAN Symphony and EMC Invista?

- A. IBM SVC supports storage pooling.
- B. EMC Invista supports asynchronous mirroring.
- C. All of the products support RAID5 internally.
- D. Data core SAN Symphony does not support storage over-provisioning.

Answer: C

Question: 62

Where are SVC node boot codes available?

- A. Only in the error log
- B. Only in the audit log
- C. Only on the front panel
- D. On the front panel and in the error log

Answer: C

Question: 63

When both a local and a remote fabric are connected together for Global Mirror purposes, what is the maximum ISL hop count between fabrics?

- A. 3
- B. 5
- C. 7

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Answer: C

Question: 64

Which statement is true about licensing IBM SVC storage software?

- A. Usage is charged based on the number of SVC nodes.
- B. Usage is charged based on the capacity of virtual disks.
- C. Usage is charged based on the capacity of managed disks.
- D. Usage is charged based on the number of backend controllers.

Answer: C

Question: 65

A customer has requested a sizing for a two-site IBM SVC solution (sites A and B on one campus). The customer is currently running 30TB of storage per site where 50% of the storage is mirrored from site A to site B. Which licenses does the customer need for this environment?

- A. Flash Copy Usage 60TB and Metro Mirror Usage 60TB
- B. Storage Software Usage 60TB and Flash Copy Usage 30TB
- C. Storage Software Usage 30TB and Metro Mirror Usage 30TB
- D. Storage Software Usage 60TB and Metro Mirror Usage 30TB

Answer: D

Question: 66

When considering the SVC zoning guidelines, what does NOT require a separate or additional zone?

- A. Similar host HBAs
- B. Dissimilar host HBAs
- C. Different host operating systems
- D. SVC ports of nodes from different SVC clusters

Answer: A

Question: 67

What is NOT a consideration when determining the readiness for deploying an IBM SVC solution?

- A. OS levels
- B. NAS devices
- C. File systems
- D. Logical Volume Managers

Answer: B

Question: 68

A customer has recently installed an IBM SVC and is experiencing slow response times. The customer believes the problem is with the SVC. Which tool collects SVC performance information for analysis?

- A. SVC GUI
- B. Fabric Watch
- C. Total Storage Productivity Center for Disk

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D. Total Storage Productivity Center for Data

Answer: C

Question: 69

A customer wants to incorporate an existing LUN that contains an Oracle database under the management of an IBM SVC. Which procedure has the least downtime when incorporating the LUN into SVC management?

- A. Create a VDisk in the MDisk group and assign it to the host, quiesce the Oracle database, and copy the files using the native copy command
- B. Create a VDisk in the MDisk group and assign it to the host, quiesce the Oracle database, backup the database, and restore the database to the VDisk
- C. Quiesce the Oracle database, present the LUN to SVC, create the LUN as an image mode VDisk, copy the contents to a new VDisk, and re-map the new VDisk to the host
- D. Quiesce the Oracle database, present the LUN to SVC, create the LUN as an image mode VDisk, map it to the host, and migrate the extents of the LUN to different managed disks

Answer: D

Question: 70

You are expanding an existing cluster of 4 x 2145-8F4 nodes V4.2 with four additional new 2145- 8G4 nodes. Which statement is true about this configuration?

- A. It is not possible to expand the cluster.
- B. New 2145-8G4 nodes must be configured in a separate cluster.
- C. New 2145-8G4 nodes may be intermixed in pairs with older nodes in a cluster.
- D. All nodes in a cluster must be of same type (for example, 2145-8G4 or 2145-4F2).

Answer: C

Question: 71

An error code is displayed on the front panel of an SVC cluster. Which document containing the codes should be used while troubleshooting the system?

- A. Service Guide
- B. SVC CLI Guide
- C. Recovery Guide
- D. Administration Guide

Answer: A

Question: 72

Which method (correct steps taken in the correct order) should be used when upgrading the SVC software from 2.1.0.3 to the 4.2.0.2?

- A. 1.upgrade the SVC software to 3.1.0.5
2. upgrade the SVC software to 4.2.0.2
3. upgrade SVC Master Console to the latest level
- B. 1.upgrade the SVC Master Console to the latest level
2. upgrade the SVC software to 3.1.0.5
3. upgrade the SVC software to 4.2.0.2
- C. 1.upgrade the SVC Master Console to the latest level
2. upgrade the SVC software to 2.1.0.6

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- 3. upgrade the SVC software to 4.1.1.5
- 4. upgrade the SVC software to 4.2.0.2
- D. 1. upgrade the SVC software to 2.1.0.6;
- 2. upgrade the SVC software to 3.1.0.5
- 3. upgrade the SVC software to 4.2.0.2
- 4. upgrade the SVC Master Console to the latest level

Answer: B

Question: 73

A customer is upgrading a four-node SVC cluster from v.4.2.0.5 to v.4.2.1.6. The first two nodes are successfully upgraded. On the third node, an error occurs while upgrading. What is the status of the upgrade?

- A. All nodes are downgraded to the original code level.
- B. The first two nodes are at a higher code level than the other nodes.
- C. All nodes with upgraded code level work; other nodes are taken offline.
- D. The third node is taken offline and the upgrade process proceeds with the fourth node.

Answer: B

Question: 74

A customer wants to implement IBM SVC in an existing SAN without interrupting current processes. In addition to evaluating the current capacity requirements and attached host systems, the customer must evaluate the availability of _____.

- A. Tape support for SVC
- B. Application support for SVC
- C. A phone line for the call home support
- D. Additional Fibre Channel ports for SVC

Answer: D

Question: 75

What is the difference between HP Enterprise Virtual Array (EVA) and IBM SVC?

- A. HP EVA offers Point in Time copies.
- B. IBM SVC offers mirroring functionality.
- C. HP EVA uses a specific multipath driver.
- D. IBM SVC supports multiple storage arrays from different vendors.

Answer: D

Question: 76

A customer is evaluating an IBM SVC. They have TPC for disk to manage the SVC. Which protocols is used by TPC to communicate with the SVC?

- A. CIM
- B. SMTP
- C. HTTP
- D. WBEM

Answer: C

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Question: 77

Which SVC node types do NOT offer the LPD panel?

- A. SVC 8G4 nodes
- B. SVC 8F4 nodes
- C. SVC 8F2 nodes
- D. SVC 4F2 nodes

Answer: D

Question: 78

Where is the Call Home information configured in SVC V4.2?

- A. Net View
- B. SVC Cluster
- C. IBM Director
- D. Tivoli Enterprise Console

Answer: B

Question: 79

A customer is interested in an SVC solution in order to consolidate a heterogeneous storage environment including DS4500 (FC-attached), ESS2105-F20 (FICON attached). Which statement is true about SVC in this environment?

- A. SVC supports SCSI attachment only.
- B. SVC supports copper Fibre Channel.
- C. SVC supports both Fibre Channel and SCSI.
- D. SVC supports Fibre Channel attachment only.

Answer: D

Question: 80

Which product is in direct competition with the IBM SVC?

- A. Falcons or
- B. EMC Symmetrix
- C. NetApp FAS270
- D. STK Virtual Tape

Answer: A

Question: 81

Which command is used to establish a one-way Global Mirror partnership between the local cluster and a remote cluster?

- A. Svctask mkclusterlink
- B. Svctask mkpartnership
- C. Svctask mkrelationship
- D. Svctask mkrconsistgrp

Answer: B

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Question: 82

Which multipath driver can run concurrently with SDD on the same IBM SVC attached host?

- A. RDAC
- B. SDDPCM
- C. PVLinks
- D. Power Path

Answer: A

Question: 83

Which statement is true about the IBM SVC Metro Mirror?

- A. Intercluster communication is performed through the LAN/WAN.
- B. SVC requires a control network or fabric to be installed to manage Metro Mirror.
- C. Intercluster and intracluster Metro Mirror can be used concurrently within a cluster for different relationships.
- D. While the Metro Mirror relationship is active, the secondary copy (VDisk) is accessible for host application write I/O.

Answer: C

Question: 84

Which multipathing software is supported when using SVC attached to servers running Red Hat 5?

- A. DMP
- B. SDD
- C. DMMP
- D. MPIO

Answer: C

Question: 85

SSH is used to secure the data flow between the SVC cluster and the client. Which key secures the connection?

- A. Host key
- B. Public key only
- C. Private key only
- D. Private/public key

Answer: D

Question: 86

A new zone on a IBM 2005-B32 is created and one link from a physically attached IBM SVC is down. What should be done to fix the problem?

- A. Determine the root cause by following "MAP 5600 Fibre Channel"
- B. Run the GUI-option "Run Maintenance Procedures" to reset the inactive links
- C. Check the link speed on the SVC side; change to the same fixed value as set in the IBM 2005- B32
- D. Check to ensure the cable is plugged in correctly; reboot the IBM 2005-B32 to allow the link to log in

Answer: B

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Question: 87

A customer has implemented a two-node cluster using an IBM SVC v4.2.0. The SVC has a 10TB IBM DS4000, and has provisioned virtual disks to 248 hosts. The customer wants to add an additional 10TB of disk under SVC control and introduce 24 more hosts to the environment. The customer also wants to maintain redundant connections to all hosts. Which supported solution should be added to meet the customer's requirement for handling a new workload?

- A. Additional cache to the SVC storage engines
- B. An additional SVC IO Group to the existing cluster
- C. An additional DS4000 storage system and SVC IO Group
- D. A second SVC cluster into the customer's environment

Answer: B

Question: 88

A large customer needs an IBM SVC solution to be scalable to over 1PB of addressable storage. What is the constraining factor that determines whether the SVC can scale up to this size?

- A. The extent size used
- B. The number of MDisks supported
- C. The number of SVC storage engines
- D. The size of VDisks presented to a host

Answer: A

Question: 89

A TPC user wants to create several SVC VDisks with TPC functionality. The user wants to then assign these to separate hosts with the corresponding zoning. In such circumstances, which licenses and functions are necessary?

- A. TPC for Disk
- B. TPC for Fabric
- C. TPC Standard Edition
- D. TPC for Fabric and Data

Answer: C

Question: 90

What is an installation requirement for IBM SVC?

- A. 3-phase power
- B. SAN fabric attachment
- C. A dedicated circuit for each UPS/node
- D. An Emergency Power Off (EPO) connection for each UPS

Answer: B

Question: 91

Which tool should be used for the sizing of an IBM SVC implementation into an existing IBM storage environment?

- A. Disk Magic
- B. TPC for Data
- C. TPC for Disk
- D. Capacity Magic

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Answer: A

Question: 92

Which CLI command is used to monitor the progress of ongoing migrations?

- A. Svctask lsmigrate
- B. Svcinfo lsmigrate
- C. Svctask lsmigrateexts
- D. Svcinfo lsmigrateexts

Answer: B

Question: 93

A customer has an IBM SVC. The company's storage administrator created all Managed Disk Groups with an extent size of 64 MB. What is the maximum storage capacity for the SVC cluster?

- A. 64TB
- B. 128TB
- C. 256TB
- D. 512TB

Answer: C

Question: 94

What is the maximum distance supported with Metro Mirror for the IBM SVC without repeaters?

- A. 5km
- B. 10km
- C. 43km
- D. 100km

Answer: B

Question: 95

What do IBM SVC solutions address?

- A. Need for data backup
- B. Online data migration SAN wide
- C. Policy-based storage management
- D. File sharing between heterogeneous operating systems

Answer: B

Question: 96

A customer wants to put an IBM SVC in front of their HDS Storage. Which multi-path driver is required?

- A. SDD
- B. RDAC
- C. PVLinks
- D. Power Path

Answer: A

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Question: 97

Which device subsystem is NOT supported by IBM SVC?

- A. DMX-3
- B. DS8000
- C. HDS 9990
- D. Sun 9990

Answer: C

Question: 98

You are configuring the SVC with intracluster Metro Mirror/Global Mirror. Both primary and secondary volumes are in the same cluster. What must be large enough to cover both volumes?

- A. The license
- B. The cache storage
- C. The cluster IP addresses
- D. Ethernet bandwidth between the two sites

Answer: A

Question: 99

What is the maximum ISL hop count between local and remote SVC nodes when connected for Global Mirror purposes?

- A. 2
- B. 3
- C. 5
- D. 7

Answer: D

Question: 100

What happens if an MDisk is deleted from an MDisk Group (MDG) using the `rmmdisk orce` command?

- A. Any extents on the MDisk are deleted along with the MDisk.
- B. An error message is displayed that indicates an MDisk that contains extents cannot be deleted.
- C. Any extents on the MDisk are migrated off the MDisk (to other MDisks in the MDG) prior to its deletion.
- D. If there are any extents on the MDisk, the option is provided to migrate them to other MDisks before they are deleted.

Answer: C

Question: 101

The SVC Console is a Web-based application that is used to manage multiple clusters. You access the IBM SVC Console via a Web browser using the following URL: <http://svccconsoleip:9080/ica>. In the URL, "svccconsoleip" is the IP address of which console?

- A. TPC Server
- B. Server Console
- C. Master Console
- D. SVC Config Node

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Answer: C

Question: 102

When implementing IBM SVC, which zoning rules apply?

- A. All SVC ports, host ports, and disk ports must be in the same zone.
- B. All SVC ports and host ports must be in a dedicated zone, and all SVC ports and all disk ports must be in a dedicated zone.
- C. Front-end SVC ports and host ports must be in a dedicated zone, and back-end SVC ports and all disk ports must be in a dedicated zone.
- D. All SVC ports and host ports must be in a dedicated zone, and all SVC ports and disk ports per disk system must be in a dedicated zone.

Answer: B

Question: 103

The implementation of an IBM SVC cluster with eight nodes has been completed at a customer location. At some point following the implementation, the customer receives the following message on the SVC front panel on the cluster: 1195 -- Node Missing. The node is no longer a functional member of the cluster. What should the customer do?

- A. Reboot the SVC node
- B. Ping the cluster IP address from a connected file server
- C. Wait three minutes as the SVC will correct the problem automatically
- D. Analyze the SVC error log and follow the SVC documentation procedures

Answer: D

Question: 104

A customer wants to deploy a Metro Mirror disaster recovery solution by integrating SVCs into their existing local and remote sites. Each site has a core/edge designed Fibre Channel fabric. What is the maximum number of inter-switch link (ISL) hops that are supported between the local and remote SVC nodes?

- A. 3
- B. 5
- C. 7
- D. 10

Answer: C

Question: 105

What happens if one node of an IBM SVC IO Group fails?

- A. The other SVC node in the same IO Group takes over.
- B. Storage owned by the failing SVC node is inaccessible until repaired.
- C. Storage assigned to the failing node is unavailable until a scripted failover is complete.
- D. The operating mode of the remaining node in the same IO Group is not affected after failover occurs.

Answer: A

Question: 106

When is the svctask set event command used?

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- A. To create the feature log dump
- B. To configure error notification
- C. To update the licensing feature settings
- D. To view specific events in the SVC Error Log

Answer: B

Question: 107

A customer orders an IBM SVC with 10TB of Fibre Channel attached storage. The customer wants to perform Flash Copy of 5TB of source data inside of the storage subsystem. Which Flash Copy license does the customer need?

- A. Flash Copy license for 5TB
- B. Flash Copy license for 15TB
- C. Flash Copy license for 10TB
- D. Flash Copy license for 20TB

Answer: A

Question: 108

A customer wants to use the IBM SVC as a migration device (i.e. remove the SVC when migration is complete) from an EMC Symetrix to an HDS Lighting. What is the best method to accomplish this?

- A. Use Flash Copy to migrate the data
- B. Use Metro Mirror to migrate the data
- C. Use image mode VDisks to migrate the data from the EMC to the HDS, then remove the SVC
- D. Use image mode VDisks on the EMC, migrate to striped Vdisk on the HDS, and remove the SVC

Answer: C

Question: 109

What is the default VDisk capacity per IO group for Flash Copy in SVC version 4.2?

- A. 8TB
- B. 16TB
- C. 20TB
- D. 40TB

Answer: D

Question: 110

A customer has an I/O intensive workload and 16TB of disk storage. They are interested in vitalizing their current environment. The customer's main concern is performance after they virtualize their network. Which IBM SVC configuration should you recommend to this customer?

- A. An SVC with two nodes
- B. An SVC with four nodes
- C. An SVC with one IO Group
- D. An SVC with eight FC ports per node

Answer: B

Question: 111

Which Flash Copy functions apply to mappings in a consistency group?

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- A. VDisks can span SVC clusters.
- B. VDisks can be in different IO Groups.
- C. VDisks can have their sizes increased or decreased.
- D. VDisks can prepare, start, and stop individual mappings.

Answer: B

Question: 112

What information is required when performing IBM SVC cluster planning?

- A. The number of hosts that will be used with the SVC, the list of World Wide Port Names (WWPNs), the number of clusters and the number of pairs of nodes
- B. The number of hosts that will be used with the SVC, the list of World Wide Port Names (WWPNs), the number of I/Os per second between the hosts and the SVC nodes
- C. The list of World Wide Port Names (WWPNs), the number of clusters and the number of pairs of nodes, the number of I/Os per second between the hosts and the SVC nodes
- D. The number of hosts that will be used with the SVC, the number of clusters and the number of pairs of nodes, the number of I/Os per second between the hosts and the SVC nodes

Answer: D

Question: 113

A customer currently has the maximum tier 2 licensing for storage virtualization at two sites with no additional licenses. The customer wants to implement Flash Copy at the primary site for 25% of the primary site's storage. The customer also wants to Metro Mirror 50% of primary site to the remote site. Which licenses are needed?

- A. 4TB Flash Copy and 16TB Metro Mirror/Global Mirror
- B. 4TB Flash Copy and 2 each of 16TB Metro Mirror/Global Mirror
- C. 16TB Flash Copy and 2 each of 32TB Metro Mirror/Global Mirror
- D. 8TB Flash Copy and 2 each of 16TB Metro Mirror/Global Mirror

Answer: D

Question: 114

During a migration, how many total synchronous reads and writes does it take to transfer a unit?

- A. 32
- B. 64
- C. 128
- D. 256

Answer: C

Question: 115

What should be done first when upgrading SVC cluster firmware from 4.1 to 4.2?

- A. Upgrade the SVC cluster
- B. Upgrade the SVC console
- C. Upgrade the SVC cluster to upgrade the SVC console
- D. Upgrade the SVC console and the SVC cluster concurrently

Answer: B

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Question: 116

A customer wants to implement IBM SVC into its existing DS8000 environment. The customer is using 10TB for System i and 20TB for System p. The System i/OS400 capacity is expected to grow an additional 10TB. Which SVC license does the customer need for this environment?

- A. Storage Software Usage of 10TB
- B. Storage Software Usage of 20TB
- C. Storage Software Usage of 30TB
- D. Storage Software Usage of 40TB

Answer: B

Question: 117

Which multipath drivers are currently supported to run concurrently on the same IBM SVC attached host?

- A. SDD and RDAC
- B. SDDPCM and SDDDSM
- C. Power Path and RDAC
- D. Power Path and PVLInks

Answer: A

Question: 118

What is the recommended power-up sequence for a virtual storage solution with IBM SVC?

- A. 1.pwr-up 2145 SVC nodes
2. pwr-up SAN switches
3. pwr-up disk enclosures
4. pwr-up storage controllers
- B. 1.pwr-up SAN switches
2. pwr-up 2145 SVC nodes
3. pwr-up storage controllers
4. pwr-up disk enclosures
- C. 1.pwr-up SAN switches
2. pwr-up disk enclosures
3. pwr-up storage controllers
4. pwr-up 2145 SVC nodes
- D. 1.pwr-up SAN switches
2. pwr-up disk enclosures
3. pwr-up 2145 SVC nodes
4. pwr-up storage controllers

Answer: C

Question: 119

A customer wants to attach a host with Red Hat AS 4.0 installed and wants to SAN boot through SVC. Which statement is true about this configuration?

- A. Veritas DMP is required for SAN boot.
- B. MPxIO needs to be installed for SAN boot.
- C. SDD or DMP needs to be installed for SAN boot support.
- D. SDD needs to be installed and BIOS option in HBAs needs to be enabled.

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Answer: C

Question: 120

Which functionality does IBM SVC provide?

- A. One global namespace
- B. Online data migration
- C. Heterogeneous file sharing
- D. Policy-based data placement

Answer: B

Question: 121

Which operating system is NOT supported by IBM SVC?

- A. AIX
- B. z/OS
- C. HP-UX
- D. Linux

Answer: B

Question: 122

What is a permitted copy between two VDisks of different sizes within the same IO Group?

- A. Copy one VDisk to a VDisk in another IO Group
- B. Copy between a VDisk in one cluster and a VDisk on another cluster
- C. Copy between two VDisks of different sizes within the same IO Group
- D. Copy between a VDisk in one IO Group to a VDisk in a different IO Group on the same cluster

Answer: B

Question: 123

A code is displayed on the front panel of a customer's IBM SVC. What should the customer do?

- A. Use the SVC GUI to analyze the error log
- B. Select "List Dumps" on the SVC Master Console GUI
- C. Contact IBM Technical Support for further assistance
- D. Save the code and press the reset key on the SVC cluster for automatic error recovery

Answer: A

Question: 124

Which are MDisk states?

- A. Online, offline, and busy
- B. Online, busy, and stopped
- C. Online, offline, and stopped
- D. Online, offline, and degraded

Answer: D

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Question: 125

Which function is performed by the DS4000 Storage Manager when configuring the storage to the IBM SVC?

- A. Create the disk arrays and assign LUNs to SVC clusters
- B. Create the disk arrays and assign LUNs to managed disk groups
- C. Assign LUNs to an SVC cluster and assign the LUNs to the host servers
- D. Assign LUNs to managed disk groups and assign the LUNs to the host servers

Answer: A

Question: 126

When is SVC recommended?

- A. When the customer uses IBM zServer with multiple HDS Tagmstore and z/OS running
- B. When the customer is running an iSeries with SAN attached IBM ESS800 and EMC Symmetrix
- C. When the customer uses multiple DS8000s with mirroring over 9250 kilometers between Atlanta and London
- D. When the customer uses an Open Systems Server with DS4000, Sun 6140 and NetApp VFile for their Windows file service environment

Answer: D

Question: 127

The implementation of a local IBM SVC cluster with four nodes and a remote SVC cluster with four nodes has been completed at a customer location. At some point following the implementation, the customer receives the following message on the SVC front panel of the local cluster: 1195 -- Node Missing. The node is no longer a functional member of the cluster. What should the customer do?

- A. Power off and on the SVC node
- B. Ping the cluster IP address from a connected file server
- C. Analyze the SVC error log and follow the SVC documentation procedures
- D. Do nothing; the node will be automatically recovered by the remaining seven SVC nodes

Answer: C

Question: 128

SVC provides a CIMOM agent to be used by which tool?

- A. SVC cluster
- B. SVC config node
- C. TPC for Disk server
- D. SVC support Web site

Answer: C

Question: 129

According to best practices, which is the preferred zone style to be used when configuring the SAN for an IBM SVC solution?

- A. Domain/port-based zoning
- B. There is no preferred zone type.
- C. Worldwide Node Name (WWNN) zoning
- D. Worldwide Port Name (WWPN) zoning

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Answer: D

Question: 130

Which business benefit is NOT provided by IBM SVC?

- A. One global namespace
- B. Online data migration
- C. Central management of all disk resources
- D. Copy services across heterogeneous disk systems

Answer: A

Question: 131

Given the following upgrade steps:

1. obtain the SVC software packages
2. upgrade the Master Console software
3. determine the version of the SVC software
4. upgrade the SVC software
5. check for degraded vdisks

What is the correct sequence of steps for upgrading software on the SVC?

- A. 1, 2, 3, 4, 5
- B. 3, 1, 2, 4, 5
- C. 1, 5, 4, 3, 2
- D. 3, 1, 2, 5, 4

Answer: D

Question: 132

A customer has installed an IBM SVC solution with two 4-node SVC clusters, both accessing storage on the same IBM DS8000. There are four Windows hosts, each accessing VDisks on both SVC clusters. The two SVC clusters do not use mirroring. Which zone types are required in this configuration?

- A. Host zones that contain the host and the two SVC clusters; an SVC cluster zone that contains all SVC clusters
- B. Host zones that contain the host and only one of the SVC clusters; an SVC cluster zone that contains all SVC clusters
- C. Host zones that contain the host and the two SVC clusters; disk zones that contain the IBM DS8000 and only one of the SVC clusters
- D. Host zones that contain the host and only one of the SVC clusters; disk zones that contain the IBM DS8000 and only one of the SVC clusters

Answer: D

Question: 133

One of two Fibre Channel paths of a DS8000 connected to SVC was temporarily removed. Which steps should be taken to repair this problem?

- A. Reconnect, shutdown, and restart SVC nodes one after the other to reestablish links
- B. Reconnect, run the GUI option "run Maintenance Procedure", select the appropriate error, and reboot the node
- C. Reconnect, run the GUI option "run Maintenance Procedure", select the appropriate error, and cancel this error
- D. After reconnecting, the SVC will automatically detect the reestablished link; "run Maintenance Procedures" will not show any related error afterwards

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Answer: C

Question: 134

Which factor is a consideration when starting virtualization with a 2-node SVC?

- A. The multipath driver must be installed on the two SVC nodes.
- B. Zoning in the SAN is no longer necessary due to LUN Masking via WWN.
- C. All attached storage products should be on the interoperability matrix.
- D. The number of attached host ports should not exceed the number 256 as listed in the support matrix.

Answer: C

Question: 135

What do you use to check the FC path status from an SVC node to an attached-storage subsystem?

- A. TPC for Disk
- B. TPC for Data
- C. The "svcinfo lsfabric" command on the SVC CLI
- D. The "svcinfo lsportstatusshow" command on SVC CLI

Answer: C

Question: 136

Data migration occurs in fixed units regardless of the extent size in a Managed Disk Group. What is the fixed unit?

- A. Byte
- B. Chunk
- C. Block
- D. Stripe

Answer: B

Question: 137

How many different MDisk modes are there?

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

Answer: B

Question: 138

A customer is using an EMC Symmetrix and will implement IBM SVC only if the current data can be migrated without major disruption. Which function allows data migration with the least disruption?

- A. Virtualization mapping in image mode
- B. Virtualization mapping in managed mode
- C. Virtualization mapping in sequential mode
- D. Virtualization mapping in compatibility mode

Answer: A

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Question: 139

What is the maximum number of single extent migrations that can occur?

- A. 32
- B. 64
- C. 128
- D. 256

Answer: D

Question: 140

Which virtual disk type enables a smooth integration of IBM SVC into an existing environment?

- A. Image mode
- B. Striped mode
- C. Sequential mode
- D. Transparent mode

Answer: A

Question: 141

A customer wants to SAN boot a Solaris 9 from a VDisk. Which multipath driver is required?

- A. SDD
- B. MPxIO
- C. PVLinks
- D. Veritas DMP

Answer: D

Question: 142

What is the correct sequence of steps for upgrading SVC Master Console software?

- A. 1.uninstall any components that are not supported by the new version
2. log in using a user ID with user privileges
3. follow the prompts
4. insert the SVC Master Console software installation CD
5. review the SVC Master Console installation log (mclog.txt) to ensure that all components are properly installed
- B. 1.uninstall any components that are not supported by the new version
2. log in using a user ID with user privileges
3. insert the SVC Master Console software installation CD
4. follow the prompts
5. review the SVC Master Console installation log (mclog.txt) to ensure that all components are properly installed
- C. 1.log in using a user ID with administrative privileges
2. insert the SVC Master Console software installation CD
3. uninstall any components that are not supported by the new version
4. review the SVC Master Console installation log (mclog.txt) to ensure that all components are properly installed
5. follow the prompts
- D. 1.log in using a user ID with administrative privileges
2. uninstall any components that are not supported by the new version
3. insert the SVC Master Console software installation CD
4. follow the prompts
5. review the SVC Master Console installation log (mclog.txt) to ensure that all components are properly installed

Exam Name:	SVC/Virtualization V.1		
Exam Type:	IBM	Exam Code:	000-209
Certification:	Advanced Technical Expert	Total Questions:	160

Answer: D

Question: 143

After a customer adds an IBM SVC to their SAN infrastructure, users at the customer's site are unable to access storage. Which GUI menu should the customer consult to identify the cause of the problem?

- A. Manage Cluster
- B. Work with VDisks
- C. Work with MDisks
- D. Service and Maintenance

Answer: D

Question: 144

Which SVC or SDD command is used to ensure that all I/O paths between hosts and SANs are working prior to performing a software upgrade?

- A. Svcinfo lscluster
- B. Data path query wwpn
- C. Svcinfo catauditlog
- D. Data path query device

Answer: D

Question: 145

Which factor should NOT be considered when creating an MDisk group?

- A. Disk drive size
- B. Disk drive speed
- C. Flash Copy requirements
- D. Disk drive manufacturer

Answer: D

Question: 146

To ensure a successful completion of a storage solution, what is the most important requirement that must be met at the beginning of the project?

- A. Ensure that the IBM support structure is in place to assist during the implementation, should any problems arise
- B. Collect all references and documentation necessary to assure the customer that the implementation will be successful
- C. Ensure that executive management has agreed to attend all progress meetings planned for the completion of the project
- D. Assign a customer project manager to oversee the implementation of the solution and to frequently update management on project progress

Answer: D

Question: 147

Your next level of support/service representative asks you to send the dumps for analysis. What must be done to download files from the Configuration Node using the GUI?

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- A. Select all files to be transferred; left-click to start download
- B. Left-click the filename to be transferred; files will automatically be copied to the SVC Master Console
- C. Right-click the filename and use the "Save Link As..." or "Save Target As..." option from the web browser
- D. Click the "Upload" button under Service and Maintenance/List Dumps; selected files are copied to the workstation

Answer: C

Question: 148

A customer has a four-node IBM SVC cluster with Metro Mirror. A database file is updated on a virtual disk allocated to the database server. The VDisk is in a Metro Mirror relationship. When does the database receive an acknowledgment from the SVC that a write is complete?

- A. When a backend disk storage server cache is updated
- B. When cache on the primary and secondary VDisk is updated
- C. When a backend disk storage server physical disk is updated
- D. When cache on all nodes in the owning IO Groups of both clusters is updated

Answer: B

Question: 149

Which statement about EMC Invista is false?

- A. It runs on Cisco switches.
- B. It supports cloning of volumes.
- C. It is an out-of-band virtualization solution.
- D. It performs best in SPC-1 and SPC-2 benchmarks.

Answer: D

Question: 150

Which statement is NOT true about Disk Magic?

- A. It shows current and expected response times.
- B. It provides additional information about performance.
- C. It enables the user to select different configuration options.
- D. It is an IBM product that can be used on other vendors' products.

Answer: D

Question: 151

A customer wants to expand the storage capacity managed by the IBM SVC. They have configured the LUNs on the storage subsystem and mapped them via WWN to SVC. What should be done to complete the expansion?

- A. Discover the LUNs online
- B. Reboot the SVC to make the LUNs visible
- C. Set the SVC offline, discover the LUNs, and set the SVC online again

Answer: A

Question: 152

What is the maximum number of nodes and IO Groups supported by an SVC cluster?

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Certification:	Advanced Technical Expert	Total Questions:	160

- A. Four nodes and two groups
- B. Eight nodes and two groups
- C. Eight nodes and four groups
- D. Four nodes and eight groups

Answer: C

Question: 153

Which zone is NOT required when zoning an IBM SVC environment?

- A. Svc node zoning
- B. Host to SVC zoning
- C. Storage to SVC zoning
- D. Host to storage zoning

Answer: D

Question: 154

What does IBM SVC provide that is not provided by competitive solutions such as HDS Universal Storage Platform-V, EMC Invista, and Data core SAN Symphony?

- A. Shared storage pool
- B. Modular scalability
- C. Transparent migration
- D. Virtual volume management

Answer: B

Question: 155

What is NOT needed for a best practice physical installation of the IBM SVC?

- A. Cable connection table
- B. Hardware location chart
- C. Configuration data table
- D. List of attached host operating systems

Answer: D

Question: 156

With the IBM SVC, which two statements are true when Flash Copy is started in order to copy a source to a target disk? (Choose two.)

- A. The target disk must be in read-write mode.
- B. The source and target disk must be the same size.
- C. Each VDisk can be a member of multiple Flash Copy mappings.
- D. The source and target disk can be in different SVC clusters.

Answer: B, C

Question: 157

How do you upload dumps and logs from SVC nodes to your workstation for analysis by support using the GUI page "Service and Maintenance"?

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- A. Under "List Dumps", select the Dump Type; right-click the files you want to transfer
- B. Under "Analyze Error Log", select the files you want to transfer to your workstation; start a secured transfer
- C. Click on "Check Other Nodes"; select the Dump Type; click the filename; from the pop-up window, select the target directory; save file
- D. Click on "Check Other Nodes"; select the Dump Type; click the filename; after the file is transferred to the configuration node, go back to select that file; right-click; save the file to your workstation

Answer: A

Question: 158

What allows CLI communication with the IBM SVC?

- A. SSH
- B. CIM
- C. FTP
- D. Telnet

Answer: A

Question: 159

To maximize the storage capacity that SVC V4.2.1.x can handle when creating extent sizes, which extent size should be used when creating the MDisk?

- A. 512MB
- B. 128MB
- C. 2048MB
- D. 1024MB

Answer: C

Question: 160

Which statement is true about global mirroring?

- A. Asynchronous copy of VDisks can be dispersed up to eight thousand kilometers.
- B. While the Global Mirror relationship is active, the secondary copy (VDisk) is accessible for host application write I/O.
- C. To enable access to the secondary VDisk for host operations, the Global Mirror relationship must be stopped using the -host parameter.
- D. The copy Global Mirror relationship can be switched so the auxiliary VDisk becomes the secondary and the master VDisk becomes the primary.

Answer: A

End of document

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