



EXAM - 000-451

IBM Midrange Storage Technical Support V3 Exam

TOTAL QUESTIONS: 75

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Question: 1

On the Storwize V7000, which IBM utility analyzes the expected compression savings for an existing volume containing data considered for compression?

- A. Comprestirator
- B. Comprestimator
- C. Comprestimetric
- D. Comprestanalyzes

Answer: B

Question: 2

A current IBM storage customer has an existing SAN environment and now requires encryption in flight. The environment today consists of a large variety of older disk and tape systems. What is the most cost effective way to meet this requirement?

- A. Install SAN24B-5 switches for the SAN.
- B. Install SAN32B-E4 switches for the SAN.
- C. Add encryption capability to the existing disk and tape systems in the SAN.
- D. Do a product refresh of the environment with a new system that supports encryption

Answer: B

Question: 3

The customer has a single site NAS environment running on EMC hardware with a capacity of 100 TB. They want to replace this and add an additional 100 TB capacity. The new system would mirror to a DR site over IP. They also want to add multi-tenancy to the solution. What IBM solution would meet these requirements?

- A. N6240
- B. Storwize V7000
- C. SAN Volume Controller
- D. Storwize V7000 Unified
- E. Company 1

Answer: A

Question: 4

A customer has an application that drives a high write workload (>50% of IOs are writes). Assuming the use of 10000 rpm or 15000 rpm SAS drives, what RAID type would be best suited for this application in a new design?

- A. RAID 4
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: D

Question: 5

A customer has an installed DS3524 and requests advice on how to add capacity to an existing logical drive. The technical specialist advises that hard drives need to be added to the array group first to provide the capacity to do the update. What operations are performed within the DS3524 operating system to achieve the upgrade?

- A. Dynamic RAID migration
- B. Dynamic Array Expansion only
- C. Dynamic Volume Expansion only
- D. Dynamic Array Expansion and then Dynamic Volume Expansion

Answer: D

Question: 6

The Storwize V7000 Real-time Compression is best suited for which filetype?

- A. Video files
- B. Database files
- C. Encrypted file
- D. Compressed files

Answer: B

Question: 7

Which statement is true about disk extents in Storwize V7000?

- A. Extent size directly impacts the maximum volume size
- B. MDisks in a storage pool can have different extent sizes
- C. All MDisks in a storage pool have the same number of extents
- D. Extent size is common across the system and cannot be changed

Answer: A

Question: 8

A cost sensitive customer requires a tape library solution with four LTO drives and 40 tape cartridge slots. Which of the following products best fits the requirement?

- A. TS2900
- B. TS3100
- C. TS3200
- D. TS3310

Answer: C

Question: 9

A customer wants to implement a high availability solution split across two remote sites located 1 km apart. They are considering one dual node N series system. What should the technical specialist recommend?

- A. N3220-A22andSnapMirroroverIP
- B. N6240-C21 and SnapMirror over FCP
- C. N6240-E21 and Fabric MetroCluster
- D. N3240-A24 and Stretch MetroCluster

Answer: C

Question: 10

A customer wants to monitor and manage their IBM storage systems' configuration and performance. Which of the following products would meet their needs?

- A. IBM Systems Director
- B. SAN Volume Controller
- C. Tivoli Storage Manager
- D. Tivoli Storage Productivity Center

Answer: D

Question: 11

A customer has HP and EMC midrange storage systems. Their main concern is that they have multiple management applications for these systems and they want to be sure they have efficient utilization of their storage. Which of the following IBM products would assist with consolidation and meet their needs?

- A. Easy Tier
- B. IBM Systems Director
- C. Storwize V7000 Unified
- D. TS7610 ProtecTIER Appliance

Answer: C

Question: 12

As part of a customer data management solution, it is necessary to store unused data on a low cost device to achieve the necessary cost benefit. While a tape library solution would provide low cost, the customer application is not capable of writing directly to tape. What recommendation should the technical specialist make to allow the POSIX capable application to access tape devices?

- A. Implement IBM LTFS Library Edition using LTO-5 or TS1140 tape drives in the library
- B. Implement SAN Volume Controller with LTFS enabled, allowing IBM LTO drives to act as vdisks
- C. Implement IBM LTFS Single Drive Edition on all IBM-supplied LTO-4 or LTO-5 drives in the library
- D. Implement ProtecTIER with LTFS, allowing the management of tape and VTL disk under a single controller

Answer: A

Question: 13

A technical specialist is discussing the benefits of a PureFlex solution with the CIO and IT Director of a prospective customer. Which benefit will be most attractive in the initial meeting?

- A. Ease of management and monitoring
- B. Support for half-wide and full-wide nodes
- C. Support for VMware, Linux KVM and PowerVM hypervisors
- D. Support for FCP, iSCSI, InfiniBand and FCoE network options

Answer: A

Question: 14

The customer is currently running a mixed Windows and UNIX SAN environment with 100 TB of capacity on old EMC CLARiiON hardware. They want to add an additional 100 TB of new disk capacity within their limited rack space, and also utilize the existing CLARiiON disk for a combined 200 TB capacity. The customer does not require NAS connectivity but is interested in implementing FCoE into their environment. Which IBM solution would best meet their needs?

- A. DS5020
- B. Storwize V7000
- C. SAN Volume Controller
- D. Storwize V7000 Unified

Answer: B

Question: 15

The RAID functionality for the Storwize V7000 came from which IBM storage product?

- A. DS8000
- B. N series
- C. XIV system
- D. SAN Volume Controller

Answer: A

Question: 16

On the Storwize V7000 Unified what feature can automatically move files to separate tiered pools of storage without disrupting access to hosts?

- A. Easy Tier
- B. Compression
- C. Quality of Service
- D. Active Cloud Engine

Answer: D

Question: 17

A prospect is considering a single chassis PureFlex. Which of the following business pressures could be reduced with the installation of PureFlex?

- A. Employing more cost effective open products
- B. Deploying applications faster for quicker time to market
- C. Reduce cost management of zBX, System x, and Power servers
- D. Top-of-rack (TOR) switches flattens the network to reduce management costs

Answer: B

Question: 18

From a file sharing perspective, which of the following is a competitive advantage of the Storwize V7000 Unified compared to EMC VNX and NetApp in 7-mode?

- A. Multipath failover
- B. CIFS and NFS support
- C. Deduplication of the data
- D. Active/Active engines with shareable namespace

Answer: D

Question: 19

A customer comments that they would like to implement a storage management solution that can monitor their entire storage environment via SMI-S. They have a combination of EMC, NetApp and IBM storage. Which solution best meets their needs?

- A. OnCommand Core
- B. Tivoli Storage Manager
- C. Tivoli Storage Productivity Center
- D. System Storage Productivity Center

Answer: C

Question: 20

What characteristics do iSCSI and FCoE have in common?

- A. Both are limited to 1 Gbps traffic
- B. Both require a gateway function, usually called an FC Forwarder (FCF)
- C. Both include IP headers and Ethernet (or other media) headers with every frame that adds payload
- D. Both protocols can use the Converged Enhanced Ethernet (CEE) to deliver lossless traffic over Ethernet

Answer: D

Question: 21

Which of the following statements is true about the Storage Tier Advisor Tool (STAT) utility when used with the IBM Storwize V7000?

- A. STAT is used to view performance data that is collected by Easy Tier.
- B. STAT compiles usage information about volumes and pools to produce upgrade forecasts.
- C. STAT is a command line utility that collects the latest five minutes of performance data
- D. Tivoli Storage Productivity Center uses STAT to collect performance statistics from the Storwize V7000.

Answer: A

Question: 22

A customer has two locations, each with a storage system connected to a Fibre Channel SAN. They want to replicate between the storage systems across their WAN, and the storage systems can replicate only over Fibre Channel. Which of the following protocols would be used?

- A. FCIP
- B. iSCSI
- C. Ethernet
- D. Fibre Channel

Answer: A

Question: 23

Which statement best describes Information Lifecycle Management?

- A. The automatic placement of frequently used data in RAM or SSD-as-cache in the application access life cycle.
- B. The rotation scheme of tape media to hold backup generations given the limited life cycle of tape cartridges.
- C. The application of policies and tools to align the business value of information with the most appropriate storage.
- D. The automatic promotion or demotion of data across storage tiers based on performance analytics on access frequency.

Answer: C

Question: 24

A customer has a large VMware estate on a single site and is planning to add a second location. The site is only 20 km away, and they are interested in being able to use vMotion to move guest operating systems between hosts across the two sites. What solution would support this requirement?

- A. DS5000 with synchronous mirroring
- B. SAN Volume Controller stretched cluster with mirroring
- C. Storwize V7000 or SAN Volume Controller with Metro Mirror
- D. Storwize V7000 or SAN Volume Controller with Global Mirror

Answer: B

Question: 25

During a requirements gathering exercise, a customer explains that their environment is synchronously replicated between two sites. Considering next year's growth as well, the workload being replicated will peak at 150 MB/s with approximately two-thirds of that workload being reads. What is the minimum bandwidth required between the two sites?

- A. 30 MB/s
- B. 50 MB/s
- C. 100 MB/s
- D. 150 MB/s

Answer: B

Question: 26

The Easy Tier feature is available on which products?

- A. XIV System, DS3500, DS5000
- B. N series, DCS3700, Storwize V7000
- C. DS8000, SAN Volume Controller, Storwize V7000
- D. DCS3700, SAN Volume Controller, Storwize V7000

Answer: C

Question: 27

Which of the following is true about volume compression in a SAN Volume Controller?

- A. Compressed volumes can be used to create Full, Incremental, and Nocopy flashcopies.
- B. If a storage pool contains a compressed volume then every volume in that pool is compressed.
- C. Compression should never be used for active live data such as an online transaction processing database.
- D. 25% of the virtual capacity of each compressed volume must be reserved as working space for re-expansion of compressed data.

Answer: A

Question: 28

A customer has a Storwize V7000 and they have the need to migrate local volumes between storage pools. Which function can be used for migrating local volumes between storage pools?

- A. FastBack
- B. Volume Mirroring
- C. FlashCopy Manager
- D. Inter-Cluster Metro Mirror

Answer: B

Question: 29

A customer would like to see how performance has improved with the DS5020 compared to their existing DS4800 they are looking to replace. Which tool would be used to help determine performance differences?

- A. Disk Magic
- B. Capacity Magic
- C. Storage Manager
- D. DS Capacity Planning Tool

Answer: A

Question: 30

IBM System Storage DS3500 supports which of the following protocols?

- A. FC.CIFS.SAS
- B. FC. SAS. iSCSI
- C. FC. iSCSI. FCoE
- D. SAS. iSCSI. CIFS

Answer: B

Question: 31

Where would the technical specialist find the clearance specification for a TS3500 Tape Library?

- A. Operator's Guide
- B. Introduction and Planning Guide
- C. System Storage Interoperation Center (SSIC)
- D. Standalone Solutions Configuration Tool (SSCT)

Answer: B

Question: 32

An N series customer wants to recover their database volumes to a point in time. Which combination of N series features will accomplish this?

- A. Snapshot and SnapRestore
- B. SnapVault and SnapRestore
- C. SyncMirror and SnapRestore
- D. MetroCluster and SnapRestore

Answer: A

Question: 33

Which RAID levels are supported on N series?

- A. RAID 0 and RAID 6
- B. RAID 4 and RAID DP
- C. RAID 0, RAID 1, RAID 5
- D. RAID 4, RAID 5, RAID DP

Answer: B

Question: 34

A customer is having major issues backing up a Microsoft SQL Server database whose data is resident on a DCS3700. They are interested in point-in-time copies and integration with Tivoli Storage Manager. What two products should the technical specialist recommend as a solution? (Select two)

- A. DCS3700 Remote Mirroring
- B. DCS3700 FlashCopy/VolumeCopy
- C. Tivoli Storage FlashCopy Manager
- D. Tivoli Storage Productivity Center for Data
- E. Tivoli Storage Manager for Storage Area Networks

Answer: BC

Question: 35

A customer has a requirement to begin archiving data for a lifecycle management initiative. The customer needs to use software for archiving and retrieving the data, and a magnetic tape library for long term retention where data must be protected from being overwritten. Initially there will be 7 TB of storage needed with a projected growth of 2 TB a year over the next two years. The technical specialist must develop a solution that will fit the above needs. What software and hardware solution would meet the customer's requirements?

- A. Tivoli Storage Manager FastBack with a TS3100 LTO-5 library and WORM media
- B. Tivoli Storage Manager Extended Edition with a TS3100 LTO-5 Library and WORM media
- C. Tivoli Storage Manager FastBack with a TS3100 LTO-5 library and Standard LTO-5 Media
- D. Tivoli Storage Productivity Center for Data with a TS3100 LTO-5 library and WORM Media

Answer: B

Question: 36

Which resource would give a technical specialist a competitive side-by-side comparison of different vendors' products?

- A. eConfig
- B. InfoCenter
- C. Sales Manual
- D. Storage Competitive Sales Tool

Answer: D

Question: 37

A customer has captured disk performance information from a Microsoft Windows server and has it stored in a name.csv file format. Which application can be used to import this name.csv file to model a disk solution?

- A. IBM Disk Magic
- B. IBM DS Capacity calculator
- C. IBM ProtecTER TS7600 planning tool
- D. Tivoli Storage Productivity Center Select

Answer: A

Question: 38

A customer requires tape backup to a TS7650 VTL Appliance to be available in a second data center. What should the technical specialist recommend?

- A. The data can be transferred via a snapshot between the disk subsystem of the TS7650 AP1.
- B. The TS7600 product family with ProtecTER provides the option to replicate cartridge data between systems by design via ethernet.
- C. After the backup is finished to the primary TS7650 AP1 tape pool a second backup should be executed to the remote secure tape pool TS7650 AP1 VTL
- D. The option of the disk global mirror provides the possibility to transfer the backup data from the local TS7650 AP1 repository to the remote system.

Answer: B

Question: 39

Which disk system is included in IBM PureFlex?

- A. XIV
- B. DS8800
- C. DS3500
- D. Storwize V7000

Answer: D

Question: 40

A customer is considering real-time compression (RTC) for their highly available NAS environment with 1 GbE and 10 GbE connections. The primary requirement is no changes should be needed for their existing servers, applications, storage or network. The technical specialist been asked to present a general overview of real-time compression and an in-depth product briefing. Which of the following products would be presented?

- A. IBM SONAS and Tivoli Storage Manager
- B. STN6800 Real-time Compression Appliance
- C. Storwize V7000 with Real-time Compression
- D. PureFlexwith 16 Gbps switch Real-time Compression license

Answer: B

Question: 41

A customer obtained special support for a switch to be used with a Storwize V7000 that was not on the supported interoperability list. If the customer experiences a problem with interoperability and contacts IBM support, what must the customer present to IBM to obtain support of the switch?

- A. The RPQ number
- B. The TechXpress ID
- C. The Interoperability Request ID
- D. There is no change in the support process

Answer: A

Question: 42

What is an RPQ?

- A. The RPQ process is to Request Promotional Quote (RPQ) for IBM goods and services.
- B. An RPQ is a customer request for non-standard IBM hardware, software or services offerings.
- C. RPQ is used to Receive Performance Queries (RPQ) by scripting the DS Storage Manager software.
- D. An RPQ is an IBM process to Resolve Possible Questions (RPQ) within a pre-sales TDA meeting with the customer

Answer: B

Question: 43

A customer wants to deploy a 6 TB database using Storwize V7000. The exhibit shows the Disk Magic model that was created to predict the performance. When the system was deployed the service times at different IOPS were consistently longer than forecasted by Disk Magic.

The left screenshot shows the 'General' tab of the Disk Magic model. It contains a table with the following data:

Physical Type	RAID	Width	Arrays	Drives	GB	Storage Pool
V7000 300GB/15k	RAID 5	8	3	24	6,000	Database

Below the table are buttons for 'Add', 'Delete', and 'Edit'. At the bottom are buttons for 'History', 'Solve', 'Base', 'Report', 'Graph', and 'Help'.

The right screenshot shows the 'Open1' tab of the Disk Magic model. It contains the following input parameters:

- Storage Pool: Database
- Used Capacity [GB]: 1000
- I/Os per sec: 1,000.0
- MB per sec: 3.9
- Transfer size [KB]:
 - Reads: 4.0
 - Writes: 4.0
 - Avg for Reads and Writes: 4.0

Below the input parameters are buttons for 'Cache Statistics' and 'Remote Copy'. The 'Model Output' section shows:

- Service Time (msec): 3.1
- Interface Utilization (%): 0.3

At the bottom are buttons for 'Virtualize' and 'Utilizations', and the same bottom navigation bar as the left screenshot.

What might cause this situation?

- A. Disk Magic defaults to Easy Tier enabled
- B. Disk Magic Used Capacity was understated in the model
- C. Actual performance will increase over time as the cache warms up
- D. Disk Magic is a marketing tool so it always overestimates performance

Answer: B

Question: 44

What is the maximum number of I/O groups supported in a SAN Volume Controller clustered system?

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

Answer: D

Question: 45

A technical specialist has been asked to design a solution to address a video imaging archiving need. The customer needs to store images on disk for 90 days then keep them on tape for a period of 7 years. There will be little access to the data once it is written initially, unless it is needed for legal reasons. There is no need for high performance and the video files are quite large in size. Initially, there will be 20 TB of data to be archived with an estimated annual growth of 50 percent for the next five years. The customer wants to add the tape system into a 42U rack and wants to be able to scale the tape system for more cartridge slots and more drives. What solution should the technical specialist recommend to meet these requirements?

- A. TS3500 with LTO-5 drives
- B. TS3100 with LTO-5 drives
- C. TS3310 with LTO-5 drives
- D. TS3200 with LTO-5 drives

Answer: C

Question: 46

Which of the following is a correct statement about supported tape drive technologies in a SINGLE frame TS3500 Tape Library?

- A. An intermix of LTO and 3592 IBM tape drive technologies is possible in one single TS3500 frame
- B. There is no intermix of tape drive technologies or generations in a single frame TS3500 configuration.
- C. A TS3500 single frame configuration can contain only one IBM tape drive technology- but can host multiple generations of it.
- D. The TS3500 can intermix only dual-ported Fibre Channel based IBM tape drives with LTO and 3592 technology in one single frame.

Answer: C

Question: 47

The customer would like to use the TS7650 Appliance model for replicating data between different data centers. How is replication licensed for the TS7650 Appliance?

- A. ProtecTER replication is unlicensed.
- B. ProtecTER replication requires a general license feature code.
- C. Replication licensing is independent from the ProtecTER capacity.
- D. ProtecTER replication is licensed by capacity corresponding to the total terabytes managed.

Answer: D

Question: 48

A prospective customer is looking to upgrade their existing x86 and UNIX infrastructure. They would like ease of implementation, and the new system to have access to their existing EMC/IBM SAN and allow connectivity to their 1GbE switches while at the same time capable of FCoE at 10GbE bandwidth. They are considering IBM PureFlex System and UCS vBlock for this project. Which of the following statements is true?

- A. PureFlex System must connect to external storage directly via Fibre Channel.
- B. UCS Manager provides support to both x86 / UNIX servers and uses service profile to simplify deployment and server firmware upgrade.
- C. PureFlex System utilizes storage visualization to access a wide variety of third party storage systems and provides connectivity to 1 GbE/10GbE and FCoE technology.
- D. UCS vBlock System utilizes storage visualization to access a wide variety of third party storage systems and provides connectivity to 1 GbE/10GbE and FCoE technology.

Answer: C

Question: 49

Which of the following statements is true about the IBM Active Cloud Engine (ACE)?

- A. ACE provides user self-service capability to deploy SAN storage.
- B. ACE moves files transparently to the most appropriate tier of storage.
- C. ACE is available for SAN Volume Controller, Storwize V7000 Unified, and XIV system.
- D. ACE improves storage performance by migrating very active data to SSD, at the sub-LUN level.

Answer: B

Question: 50

Which of the following statements is true about the DCS3700?

- A. The DCS3700 Storage System occupies 5 rack units.
- B. The minimum number of disk drives installed must be 20.
- C. 8 GB of mirrored cache is standard, expandable to 16 GB.
- D. A maximum of three DCS3700 Expansion Units can be attached.

Answer: B

Question: 51

Considering the TS7600 Appliance family with ProtecTER V3.2, which of the following is a supported interface for host backup?

- A. Quick File System (QFS)
- B. Linear Tape File System (LTFS)
- C. Symantec Open Storage Interface (OST)
- D. Virtual Tape Library Emulation with SAS Interface

Answer: C

Question: 52

A customer wants to improve performance on a DS3512 single controller storage system. The technical specialist has been asked to evaluate options and make a recommendation. Which of the following options would provide improved performance for this customer?

- A. Purchase the Turbo Performance license
- B. Disable antivirus scanning on all hosts
- C. Set queue depth on all hosts to maximum value
- D. Upgrade the DS3512 to a dual controller system

Answer: D

Question: 53

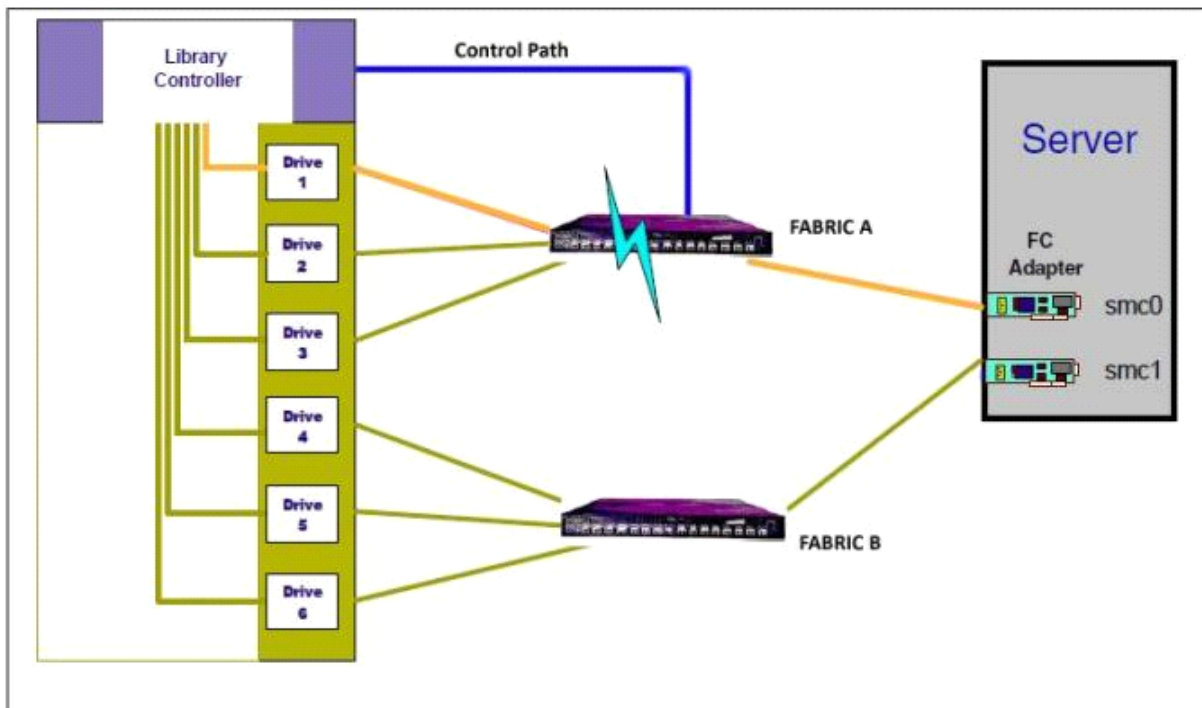
What tool should be used to size an IBM N series for performance?

- A. eConfig
- B. Disk Magic
- C. Capacity Magic
- D. System Performance Modeler

Answer: D

Question: 54

The exhibit shows a non-IBM tape library setup, where Fabric A, in addition to controlling tape drives 1 through 3, also controls the tape library controller. In the event of Fabric A loss, all control between host and library would be lost and all drives become inaccessible.



With an equivalent IBM library, in the event of Fabric A failure, which drives would be affected?

- A. All drives would be inaccessible, as the only path to the controller is lost
- B. All drives would be accessible as IBM provides control paths via the tape devices meaning multiple control paths exist
- C. All drives would be accessible due to the redundant control path on Fabric B (all IBM libraries provide dual-path controllers as standard)
- D. Drives 1 through 3 would be inaccessible, but drives 4-6 would continue to function due to the redundant control path on Fabric B (all IBM libraries provide dual-path controllers as standard)

Answer: B

Question: 55

Which tool allows the technical specialist to see the components needed to perform an upgrade on a Storwize V7000 and get a list price of the costs?

- A. eConfig
- B. COMP database
- C. DS Capacity Planning Tool
- D. Standalone Solutions Configuration Tool (SSCT)

Answer: A

Question: 56

What is needed to upgrade a TS7620 ProtecTER Deduplication Appliance Express from 5.4 TB to 11 TB physical capacity?

- A. The upgrade is a license key only.
- B. There is no upgrade from 5.4 to 11 TB within one system.
- C. Power off the TS7620, add new disk drives, power on, and assign capacity.
- D. Add disk drives to the TS7620 on the fly, no powering off; system will assign capacity automatically.

Answer: A

Question: 57

How is Real-time Compression licensed on the Storwize V7000?

- A. Per disk
- B. Per raw TB
- C. Per usable TB
- D. Per disk enclosure

Answer: D

Question: 58

Which distributed file system does the Storwize V7000 Unified use to store and retrieve files?

- A. DFS
- B. NFS
- C. NTFS
- D. GPFS

Answer: D

Question: 59

What is the competitive advantage of a Storwize V7000 solution compared to midrange disk systems from EMC, Dell HP, HDS?

- A. Only the Storwize V7000 provides 99.999% availability
- B. Only the Storwize V7000 has thin provisioning as a standard feature
- C. Only the Storwize V7000 can virtualize disk systems from other vendors
- D. Only the Storwize V7000 can have SAS, FC, and solid-state drives installed in one cabinet

Answer: C

Question: 60

The customer is having a problem adding LUNs from a SAN-attached DS5020. The LUNs are showing up multiple times. The hosts are running Windows 2008 R2 Enterprise. How can this situation be resolved?

- A. Install RDAC for DS5020
- B. Check the default HBA settings
- C. Install IBM MPIO Device Specific Module (DSM)
- D. Install SDDDSM drivers and update HBA firmware

Answer: C

Question: 61

A customer has purchased some new LTO-5 drives to replace their existing LTO-4 drive technology. They wish to re-use some legacy LTO-3 and more recent LTO-4 tape cartridges. Which of the following statements is true regarding the re-use of cartridges?

- A. LTO-5 drives cannot write to LTO-4 written cartridges
- B. LTO-5 drives cannot write to LTO-3 written cartridges
- C. LTO-5 drives cannot read from LTO-4 written cartridges
- D. LTO-5 drives cannot read from LTO-3 written cartridges

Answer: B

Question: 62

What does the Solution Assurance practice describe?

- A. A redesign of a product and services solution
- B. The technical reviews conducted on a proposed solution
- C. A product review process exclusively for Business Partners
- D. On-site implementation services provided for the proposed solution

Answer: B

Question: 63

A technical specialist is working with a customer that wants to utilize a Storwize V7000 for iSCSI connection in their environment. The technician and the customer are drawing up the connectivity plan for the new installation. Which of the following is a true statement regarding connectivity for the Storwize V7000?

- A. The management and iSCSI ports must share the same VLAN.
- B. Port 2 on each node canister is used for the service address.
- C. Only one port from either node canister must have connection to the LAN.
- D. The same IP address cannot be used for both management and iSCSI host use

Answer: D

Question: 64

A technical specialist is working with a customer on a Boot from SAN project after migrating data from DASD to an IBM SAN. The customer is concerned about hardware system downtime after the migration. Which of the following steps are necessary to handle bringing a host back online to a Boot from SAN state?

- A. The system administrator needs to swap only the hardware and reconfigure switch zoning and host-port definitions on the storage server.
- B. The system administrator needs to swap only the hardware and cabling plus configure switch zoning and host-port definitions on the storage server
- C. The system administrator needs to swap only the hardware and reconfigure the UEFI Boot Order, the HBA's BIOS and host-port definitions on the storage server.
- D. The system administrator needs to swap only the hardware and reconfigure the UEFI Boot Order, the HBA's BIOS, switch zoning, and host-port definitions on the storage server.

Answer: D

Question: 65

A technical specialist is working with a customer on a new Storwize V7000 installation. The customer wants to begin the process of virtualization on external storage. Which of the following licensing requirements must the technical specialist take into account?

- A. When external storage is virtualized by a Storwize V7000, a per-TB external virtualization license is required.
- B. When external storage is virtualized by a Storwize V7000, a per-enclosure external virtualization license is required.
- C. Virtualization licenses are not required for the external storage once it is migrated and still under Storwize V7000 control
- D. Virtualization licenses are required for external storage when that storage will be migrated and then released from Storwize V7000 control.

Answer: B

Question: 66

What is the standard hardware warranty on the Storwize V7000?

- A. 1 year same business day 9x5
- B. 3 year next business day 9x5
- C. 2 year next business day 24x7
- D. 5 year same business day 24x7

Answer: B

Question: 67

During a customer meeting to plan the installation for two Storwize V7000 Unified systems, the customer details the following requirements. Which solution could potentially cause a problem at installation time unless corrected?

- A. The customer would like to use the iSCSI host port interface on the Storwize V7000 to provide block based storage to a community of Windows 2008 R2 servers
- B. The spare Fibre Channel host ports on the Storwize V7000 will be directly connected to a SAN6B-R protocol router for block based replication to a remote site.
- C. The 1Gb Ethernet interface will be used for customer data and the management of the Storwize V7000 Unified system. The customer data and the management of the system must be on separate VLANs.
- D. The 10Gb Ethernet will only be used for customer data and is to be the preferred environment for file replication to a remote site. There are Active directory servers at both sites and services for Unix will be required.

Answer: C

Question: 68

An IBM Business Partner is proposing a Storwize V7000 as part of a solution to their customer. The customer is not currently an IBM Storwize V7000 user. Who is responsible for starting a Technical and Delivery Assessment (TDA) review process?

- A. The customer
- B. The IBM distributor
- C. The IBM Business Partner
- D. The IBM sales representative

Answer: C

Question: 69

A customer just purchased a Storwize V7000 and wants to upgrade their warranty. What is the best standard warranty available for the customer?

- A. 9x5 with 4 hour response
- B. 24x7 with 4 hour response
- C. 24x7 with 2 hour response
- D. 24x7 with 1 hour response

Answer: C

Question: 70

A customer has a Storwize V7000 with nine expansion enclosures, each with 24 drives. Given this configuration, what is the maximum number of drives that can be added to fully configure the cluster?

- A. 240
- B. 480
- C. 720
- D. 960

Answer: C

Question: 71

A customer has a Storwize V7000 with a single drive type installed. A question has been raised as to whether SSDs would alleviate an ongoing application issue. What is the IBM recommended tool to answer this question?

- A. Disk Magic
- B. Heat Log Output
- C. Storage Tier Advisor
- D. Storwize V7000 I/O Statistics

Answer: C

Question: 72

What is the default RAID configuration for a Storwize V7000 using 3 TB drives?

- A. RAID0
- B. RAID 5
- C. RAID 6
- D. RAID 10

Answer: C

Question: 73

What GUI-based system management tool is used to manage N series storage subsystems and N series system objects?

- A. OnCommand
- B. AutoSupport
- C. SnapManager Suite
- D. Tivoli Storage Manager

Answer: A

Question: 74

A customer wants a new Storwize V7000 with 15 TB usable storage in one chassis. They need 10 Gbit iSCSI and do not want to use any 7200 rpm drives. What configuration should be recommended?

- A. 2076-212 with 3 TB drives
- B. 2076-112 with 1 TB drives
- C. 2076-324 with 900 GB drives
- D. 2076-124 with 900 GB drives

Answer: C

Question: 75

The technical specialist is assisting a customer during the setup and configuration of two Storwize V7000 systems in a replicated configuration. As part of this setup, the customer wants to discover and add non-IBM storage to the Storwize V7000 as a managed disk. What is the best tool to assist in this process?

- A. Disk Magic
- B. Storage Tiering Advisor
- C. Tivoli Storage Productivity Center Select
- D. Tivoli Storage Productivity Center for Replication

Answer: C

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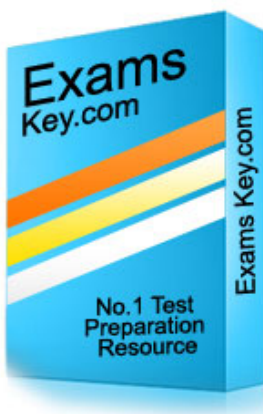


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