



Exam : 000-386

Title : High-End Disk Solutions, Version 3

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QUESTION 1:

Which of the following should be used to determine the capacity requirements of an IBM TotalStorage Enterprise Storage Server (ESS) opportunity?

- A. The number of back-end device adapter pairs
- B. The number of servers attached in ESCON/FICON mode
- C. The number of disk volumes being copied during a full backup
- D. The number and type of Database Index volumes installed (Oracle, Informix, etc.)

Answer: C

QUESTION 2:

Certkiller .com has a requirement to connect ten (10) servers in one building on a campus to a disk pool in another building. High data availability is a requirement. The distance between the servers and the disk is 4,000 meters. The best and most cost-effective solution would involve using an IBM TotalStorage Enterprise Storage Server with Native Fibre and which of the following?

- A. Two IBM TotalStorage SAN Switches F16 with 10 Short Wave and 6 Long Wave SFPs
- B. Two IBM TotalStorage SAN Switches F16 with 10 Long Wave and 6 Short Wave SFPs
- C. One IBM TotalStorage SAN Switches F32 with 16 Short Wave and 16 Long Wave SFPs
- D. Two IBM TotalStorage SAN Switches F32 with 8 Long Wave and 16 Short Wave SFPs

Answer: A

QUESTION 3:

Certkiller .com has several iSeries servers connected to an existing IBM TotalStorage Enterprise Storage Server and wants to purchase an additional ESS for disaster recovery purposes. The distance between the sites is 200km. Which of the following should the storage specialist recommend to ensure data availability?

- A. FlashCopy
- B. ASP
- C. XRC
- D. PPRC-XD

Answer: D

QUESTION 4:

Certkiller .com is installing an IBM TotalStorage Enterprise Storage Server in an IBM eServer zSeries environment and wants to review the latest installation hints and tips. Where would the customer look for this information?

- A. Q Bucket
- B. PSP Bucket
- C. PAV Bucket
- D. MA Bucket

Answer: A

QUESTION 5:

Which of the following capabilities is NOT offered in the IBM TotalStorage Enterprise Storage Server Expert?

- A. Asset Management
- B. Capacity Management
- C. Performance Management
- D. Configuration Management

Answer: D

QUESTION 6:

Certkiller .com currently has two IBM TotalStorage Enterprise Storage Servers and is purchasing three more. How many Master Console ports will be available for future ESS attachment?

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

Answer: A

QUESTION 7:

The IBM TotalStorage Enterprise Storage Server provides data sharing where a single copy of the data can be accessed from multiple homogeneous open system platforms. Which of the following functions must the applications provide?

- A. A locking mechanism to ensure write integrity
- B. A data-chaining mechanism

- C. A sequential data access mechanism
- D. A mechanism to exploit multiple allegiance

Answer: A

QUESTION 8:

A storage specialist will be conducting a technical presentation on disaster recovery implementation for a client. Who would be the most important person to attend the presentation in order to ensure project initiation?

- A. End User Department Manager
- B. Chief Executive Officer
- C. System Administrator
- D. IT Director

Answer: D

QUESTION 9:

Certkiller .com has installed an IBM TotalStorage Enterprise Storage Server. The customer has determined that the Return On Investment (ROI) is eight months, based on reduction of management costs. The customer is willing to share this ROI information. Who is the person most interested in this type of information?

- A. IT director
- B. Purchasing agent
- C. Data Center manager
- D. End-user Department manager

Answer: A

QUESTION 10:

Certkiller .com requires regular access to large amounts of sequential data. Some of the data is used infrequently. Time to access the first byte of data is not significant; however, performance requirements after that first access are medium to high. Which of the following could best meet these technical needs?

- A. Disk only
- B. Disk or Tape
- C. Tape or Optical
- D. Optical only

Answer: B

QUESTION 11:

Certkiller .com has an installed IBM TotalStorage Enterprise Storage Server (ESS) Model 800 with 20TB of storage, 32GB cache and ESCON channels. The customer is beginning to experience throughput performance issues and has no additional ESCON channel expansion ability. To best address these performance considerations, what path should be suggested?

- A. Add a second ESS to allow additional ESCON connections.
- B. Convert the installed ESS from ESCON to FICON connections.
- C. Increase the cache on the ESS from 32GB to 48GB.
- D. Add additional eight-packs to provide more disk arms and increase performance.

Answer: B

QUESTION 12:

Certkiller .com has an IBM eServer zSeries server with IBM 9393 RAMAC Virtual Array (RVA) disk storage. The customer also has a number of UNIX and Microsoft Windows servers located throughout the building. Each server has a large amount of disk storage. The customer is considering consolidation of all disk storage. Which of the following is the most important area to explore with the Chief Information Officer (CIO)?

- A. What are the business issues driving the decision to consolidate?
- B. What is the current disk capacity utilization across the open systems servers?
- C. What is the effort to convert SnapShot jobstreams to FlashCopy?
- D. What is the forecast for capacity growth in data storage for the next year?

Answer: A

QUESTION 13:

A storage specialist is proposing a 2TB IBM TotalStorage Enterprise Storage Server (ESS) to replace a five-year old 1TB disk subsystem that the customer purchased in the used equipment market. Which of the following would provide an effective cost justification for migration to ESS?

- A. Centralized management
- B. Multi-platform attach capability
- C. Three year warranty
- D. FlashCopy feature

Answer: C

QUESTION 14:

A storage specialist has been asked to present the IBM TotalStorage Enterprise Storage Server (ESS) to a company's Technical Evaluation Committee. The specialist has been asked to provide an open systems customer reference. The customer has a bias for mirroring to achieve high performance. Who is most likely to be the competitor entrenched in this account?

- A. Compaq
- B. HDS
- C. Sun
- D. EMC

Answer: D

QUESTION 15:

An Operations Manager from a local business asks a storage specialist to present IBM's storage system products to the company's Technical Evaluation Committee. Given this information, which of the following is the best course of action for the storage specialist to take?

- A. Make a disk product positioning presentation to the Technical Evaluation Committee.
- B. Make a competitive presentation to the Technical Evaluation Committee before making a recommendation.
- C. Make a disk versus tape positioning presentation to the Technical Evaluation Committee.
- D. Make a determination of the company's storage requirements before presenting to the Technical Evaluation Committee.

Answer: D

QUESTION 16:

Certkiller .com has a rapidly expanding data warehouse application installed on IBM TotalStorage 7133 Serial Disk Systems. The customer is considering acquisition of a small IBM TotalStorage Enterprise Storage Server (ESS) Model F20 or 800 to support a data center merger. Which of the following is supported ONLY on a Model 800?

- A. IBM 7133 disks can be reused
- B. 2 Gb Fibre Channel HBAs
- C. Additional servers and storage can be rapidly connected
- D. SAN Volume Controller dynamic LUN expansion

Answer: B

QUESTION 17:

Certkiller .com has a rapidly expanding data warehouse application installed on an older EMC system. The customer wants to migrate and add storage on a regular basis with minimum disruption. All of the following are considerations when migrating to IBM TotalStorage Enterprise Storage Server (ESS) Model 800 EXCEPT

- A. IBM Global Services can offer migration services to seamlessly move data from the old EMC gear to the new ESS.
- B. For the hosts that support it, the customer can migrate the data using software mirroring.
- C. The customer can migrate the data using PPRC.
- D. The customer will want to consider current RAID configuration and select appropriate RAID configurations on the ESS.

Answer: C

QUESTION 18:

Certkiller .com recently implemented a data warehousing application. What disk subsystem attributes are most important for this type of application?

- A. Read performance and scalability
- B. Large cache capability
- C. Remote copy function
- D. Block and file I/O capability

Answer: A

QUESTION 19:

A storage specialist is assessing Certkiller .com's environment in order to prepare a proposal for an IBM storage solution. Which of the following would yield the most information for initial planning purposes?

- A. SAN switches installed
- B. Backup/restore devices
- C. Critical application characteristics
- D. Data retention requirements

Answer: C

QUESTION 20:

Certkiller .com's

IT department now mandates a viable backup and recovery process be in place before an application is deployed. What would be the simplest and effective option to satisfy this mandatory requirement?

- A. Consolidate all Open System servers disk space onto ESS with RAID-5.
- B. Integrate FlashCopy into backup and recovery process.
- C. Deploy PPRC to facilitate the backup process.
- D. Install 10TB of IBM 7133 Serial Disk System on the Open System servers.

Answer: B

QUESTION 21:

When designing a backup/recovery solution for Certkiller .com, which of the following relates to the customer's Recovery Point Objective (RPO)?

- A. Amount of data to be backed up
- B. Ability to recover journal transactions
- C. Number of users forced off the system
- D. Production database restart duration

Answer: B

QUESTION 22:

An IBM Business Partner is analyzing customer requirements for a disk subsystem. To compare customer configuration requirements to current host attach information for an IBM TotalStorage Enterprise Storage Server, what is the best source of information for the storage specialist to use?

- A. ESS Web Site
- B. PartnerInfo
- C. Initial Setup Assistant
- D. PartnerLine

Answer: A

QUESTION 23:

Certkiller .com has an IBM TotalStorage Enterprise Storage Server and will attach an older RS/6000
What steps should be followed to ensure proper connectivity?

- A. Install O/S patches and Redundant Dual Active Controller.
- B. Install Fibre Host Bus Adapters and the Subsystem Device Driver.

- C. Review readme.1st from the ESS CD to ensure that the model and O/S levels are supported.
- D. Review the ESS website to ensure that the model and O/S levels are supported.

Answer: D

QUESTION 24:

Certkiller .com currently has 180GB of EMC storage defined as 21 IBM 3390 Model 9 volumes. The customer is using an additional 180GB defined as business continuance volumes (BCVs). The customer rotates full volume dumps and backs up three volumes per night. An IBM TotalStorage Enterprise Storage Server with FlashCopy is being proposed to replace the EMC storage configuration. Approximately how much capacity would be allocated?

- A. 180GB
- B. 210GB
- C. 360GB
- D. 420GB

Answer: B

QUESTION 25:

In sizing an IBM TotalStorage Enterprise Storage Server, which of the following tools best determines an appropriate configuration based on the customer's performance requirements?

- A. IBM TotalStorage Enterprise Storage Server Specialist
- B. IBM TotalStorage Enterprise Storage Server Expert
- C. eConfig
- D. IBM Disk Magic

Answer: D

QUESTION 26:

A potential customer wants to consolidate three existing Symmetrix 5000 storage subsystems onto a single storage subsystem, to support open systems servers with 3TB of data and mainframe servers with 510 volumes equaling 1.46TB of data. The open system data has low performance requirements, but the mainframe data has very high performance requirements. To improve performance, the customer plans to configure 3 PAV alias volumes for each base volume. Which of the following IBM TotalStorage Enterprise Storage Server configurations will meet the customer requirements?

- A. Twelve (12) 8-packs of 73GB, 10K RPM drives
- B. Eight (8) 8-packs of 73GB, 10K RPM drives + four (4) 8-packs of 73GB, 15K RPM drives
- C. Eight (8) 8-packs of 146GB drives
- D. Four (4) 8-packs of 146GB drives + eight (8) 8-packs of 36GB, 10K RPM drives

Answer: D

QUESTION 27:

When working with Certkiller .com to fine-tune a configuration to meet requirements, which of the following tools is best for determining the usable disk space?

- A. IBM Disk Magic
- B. IBM TotalStorage Enterprise Storage Server Specialist
- C. IBM Capacity Magic
- D. IBM eConfig

Answer: C

QUESTION 28:

Certkiller .com with a large number of UNIX servers has installed an IBM TotalStorage Enterprise Storage Server Model 800 for a 90 day trial. The ESS delivers excellent performance for most of the customer's tests, but does not meet the customer's expectations for a critical benchmark that heavily loads a few key volumes on one array.

Which of the following changes should the storage specialist suggest to improve performance for this critical benchmark?

- A. Add Parallel Access Volumes
- B. Add Arrays Across Loops
- C. Turn off RAID-5 sparing
- D. Turn off cache and NVS

Answer: B

QUESTION 29:

Certkiller .com has 16 eight-packs currently installed into an IBM TotalStorage Enterprise Storage Server Model 800. How many additional eight-packs can be added to the expansion frame?

- A. 24
- B. 32

- C. 40
- D. 48

Answer: B

QUESTION 30:

Certkiller .com has an existing IBM TotalStorage Enterprise Storage Server Model 800 with 16 eight-packs of 72.8GB disks and 16 ESCON Adapters. How many additional FICON adapters and eight-packs can be installed in a new expansion frame?

- A. 16 adapters and 16 eight-packs
- B. 4 adapters and 24 eight-packs
- C. 8 adapters and 8 eight-packs
- D. 0 adapters and 32 eight-packs

Answer: D

QUESTION 31:

Certkiller .com has a requirement for a centralized disk solution that provides 200GB of IBM eServer zSeries attached storage, 120GB of NT storage, and 200GB of UNIX attached storage. The mainframe environment is a single zSeries with a test and production LPAR. The NT environment includes 20 servers of which five are considered mission critical. The UNIX environment has three HP servers running a SAP R/3 Oracle environment with a 24 X 7 X 365 Service Level Agreement (SLA).

The customer requires 400GB of additional storage for Business Continuance Volumes (BCV). All data is in a RAID 1 configuration. What is the minimum raw capacity that an EMC solution would most likely include?

- A. 920GB
- B. 1.44TB
- C. 1.68TB
- D. 1.84TB

Answer: B

QUESTION 32:

Certkiller .com has a requirement for a centralized disk solution that provides 200GB of IBM eServer zSeries attached storage, 120GB of NT storage, and 200GB of UNIX attached storage. The mainframe environment is a single zSeries with a test and production LPAR. The NT environment includes 20 servers of which five are considered mission critical. The UNIX environment has three HP servers

running a SAP R/3 Oracle environment with a 24 X 7 X 365 Service Level Agreement (SLA).

Given the high availability requirements of the NT and HP servers and assuming that dual fibre channel adapters are installed in each server, what common software should be installed on both server types if this was to be implemented with a Symmetrix?

- A. PowerPath
- B. Subsystem Device Driver
- C. Symmetrix Optimizer
- D. TimeFinder

Answer: A

QUESTION 33:

Certkiller .com has an existing EMC Symmetrix. The customer's data is growing exponentially. The equipment lease is about to expire. Which of the following would be the best reason to move this customer to an IBM TotalStorage Enterprise Storage Server?

- A. Higher Availability
- B. Better Performance
- C. Lower Total Cost of Ownership
- D. Ease of Management

Answer: C

QUESTION 34:

Which of the following EMC host-based software products provides multipath host support?

- A. Business Continance Volumes (BCVs)
- B. PowerPath
- C. Symmetrix Remote Data Facility (SRDF)
- D. TimeFinder

Answer: B

QUESTION 35:

A potential customer is considering IBM, EMC, and HP/Compaq for a centralized storage solution. Where can a Business Partner storage specialist find technical information to compare against an EMC solution?

- A. IBM PartnerInfo
- B. EMC Web site
- C. IBM Business Partner SupportLine
- D. IBM Global Services

Answer: A

QUESTION 36:

An HP sales representative has proposed the HP EVA to Certkiller .com. Where can a business partner find competitive information about HP EVA?

- A. The IBM Storage Web site
- B. IBM Business Partner SupportLine
- C. The HP Web site
- D. PartnerInfo

Answer: D

QUESTION 37:

Certkiller .com is interested in purchasing a new IBM TotalStorage Enterprise Storage Server (ESS) Model 800 to replace an existing ESS Model F20. Which three of the following advantages would the customer realize by taking this path?

- I. Support for RAID-10**
- II. Support for up to 64GB cache**
- III. Support for 15,000 RPM drives**
- IV. Support for 145.6GB drives**

- A. I, II, and III
- B. I, II, and IV
- C. I, III, and IV
- D. II, III, and IV

Answer: B

QUESTION 38:

Certkiller .com has a heavily utilized IBM TotalStorage Enterprise Storage Server (ESS) Model F20 that is running critical applications. The customer decided to run additional applications on the ESS because of the success of the ESS with their critical applications. Performance is now the top priority. The customer decided to replace the ESS Model F20 with an ESS Model 800 with the Turbo feature. Based on IBM published documentation, what performance improvements might be expected?

- A. Up to 1.5 times

- B. Up to 2 times
- C. Up to 2.5 times
- D. Up to 3 times

Answer: C

QUESTION 39:

Certkiller .com has a requirement for a centralized disk solution that provides 200GB of IBM eServer zSeries attached storage, 120GB of NT storage, and 200GB of UNIX attached storage. The mainframe environment is a single zSeries with a test and production LPAR. The NT environment includes 20 servers of which five are considered mission critical. The UNIX environment has three HP servers running a SAP R/3 Oracle environment with a 24 X 7 X 365 Service Level Agreement (SLA).

For this environment, the sales team has proposed an IBM TotalStorage Enterprise Storage Server Model 800 configuration of 1.26TB. For the zSeries environment, 200 GB has been configured, with an additional 300GB for IBM FlashCopy. The correct pricing option for the IBM FlashCopy software would be IBM FlashCopy for capacity up to

- A. 300GB
- B. 520GB
- C. 1TB
- D. 2TB

Answer: D

QUESTION 40:

Certkiller .com has servers that are currently connected to two EMC Symmetrix subsystems that are running RAID-1, with disk space assigned as follows:

- * 200GB of useable mirrored disk to IBM eServer xSeries servers
- * 300GB of useable mirrored disk to IBM eServer pSeries servers
- * 500GB of useable mirrored disk to IBM eServer zSeries servers

The customer would like to consolidate all storage into a single IBM TotalStorage Enterprise Storage Server (ESS). Which of the following configurations is the most cost-effective solution that closely matches the current capacity requirements for this customer?

- A. Five (5) 8-packs of 36.4GB drives
- B. Ten (10) 8-packs of 18.2GB drives
- C. Ten (10) 8-packs of 36.4GB drives
- D. Twenty (20) 8-packs of 18.2GB drives

Answer: B

QUESTION 41:

Certkiller .com has a requirement to attach eight servers requiring 1.5TB of capacity to a disk pool. High data availability (no single point of failure) is a requirement. Which of the following is the most cost-effective IBM TotalStorage Enterprise Storage Server (ESS) configuration?

- A. Two fibre channel connections and two IBM 2109-F08 switches
- B. Four fibre channel connections and two IBM 2109-F08 switches
- C. Four fibre channel connections and two IBM 2109-F16 switches
- D. Two fibre channel connections and two IBM 2109-F32 switches

Answer: C

QUESTION 42:

A company has eight mission critical servers to be connected to an IBM TotalStorage Enterprise Storage Server in a fault tolerant configuration. What is the appropriate number of IBM TotalStorage SAN Switches Model F08 that must be installed to satisfy the requirement?

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

Answer: B

QUESTION 43:

Which product family is supported to connect the iSeries server running OS/400 V5R1 to the ESS in a SAN environment?

- A. IBM Model 2109 TotalStorage SAN Switch
- B. IBM Model 2034 McData Sphereon Fabric Switch
- C. IBM Model 2042 CNT/9000 Fibre Channel Director
- D. IBM Model 2061 Cisco Multilayer Fabric Switch

Answer: A

QUESTION 44:

A large UNIX and Microsoft Windows server customer has an IBM TotalStorage Enterprise Storage Server (ESS). The customer has acquired another company with a small IBM eServer zSeries server, which will be moved to the home location and

attached to the ESS. At the initial planning meeting with the customer, what is the key point that the storage specialist should make to the IT personnel?

- A. The IBM zSeries server has a much more advanced operating system than UNIX and life cycle management of data sets makes it easy to use with ESS.
- B. The ESS will need ESCON/FICON adapters to attach to the IBM zSeries server but the method of allocating the storage is the same.
- C. The IBM zSeries server can share the current ESS Host Adapters with the UNIX servers, but will require additional disk to support the zSeries server.
- D. The company should ensure that the IBM zSeries system programmer resource is being provided for data set management. The ESS administrator can allocate storage on the ESS for the IBM zSeries server.

Answer: B

QUESTION 45:

Certkiller .com has three Hitachi Storage Subsystems supporting an S/390 eServer and 8 Open Systems servers. The S/390 data totals 4.5TB and the Open servers use 1.5TB. The S/390 server is directly attached to each Storage Subsystem via 16 ESCON paths each. Each Open server is directly attached to the Storage Subsystems via 2 Fibre paths each. The S/390 server and storage devices are coming off lease and they want a solution to update their current technology. They have a limited budget and are floorspace constrained. Which of the following solutions would meet their needs?

- A. Replace the S/390 server with a z800 with 6 FICON ports. Replace the Storage devices with a 6.7TB ESS with 10 Fibre adapters (6 configured for FICON, 4 for Fibre Channel). Attach a Director supporting FICON and Fibre for connectivity.
- B. Replace the S/390 server with a z800 with 12 FICON ports. Replace the Storage devices with a 6.7TB ESS with 16 Fibre adapters (12 configured for FICON, 4 for Fibre Channel). Install two Fibre Switches for Open Systems connectivity. Direct attach the z800 to the ESS.
- C. Replace the S/390 server with a z800 with 6 FICON ports. Replace the Storage devices with a 6.7TB ESS with 10 Fibre adapters (6 configured for FICON, 4 for Fibre Channel). Install two Fibre Switches for Open Systems connectivity. Direct attach z800 to the ESS.
- D. Replace the S/390 server with a z800 with 8 FICON ports. Replace the Storage devices with a 6.7TB ESS with 16 Fibre adapters (8 configured for FICON, 8 for Fibre Channel). Direct attach the z800 and the Open Systems servers to the ESS.

Answer: C

QUESTION 46:

Which of the following statements is true for the IBM TotalStorage Enterprise

Storage Server (ESS) Master Console?

- A. The Master Console eliminates the need of a modem expander since the modem is connected to the ESS Net PC.
- B. The Master Console does not run on a specific Operating System. It can be installed on an OS preferred by the customer.
- C. The ESS Master Console eliminates the need for a Web browser since the configuration can be done now only from the Master Console for security reasons.
- D. The Multiport Serial Adapter eliminates the need for an Ethernet connection between the ESS Clusters since the communication uses the high-speed serial connection via the Master Console.

Answer: A

QUESTION 47:

Certkiller .com has an IBM Enterprise Storage Server Model F10 with 1.68TB of usable capacity. They are considering acquiring a ESS Model 750 because the lease on the F10 is expiring. Which of the following is the most likely inhibitor to deployment of the new model?

- A. The cost of conversion for ESSNet to ESS Master Console
- B. The inability to upgrade to a Model 800
- C. The availability of three-phase power
- D. The performance of higher capacity DDMs

Answer: C

QUESTION 48:

Certkiller .com is planning to replace an IBM TotalStorage Enterprise Storage Server (ESS) Model F20 with an ESS Model 800. What is the best solution to migrate the data from the Model F20 to the Model 800?

- A. Backup data on the Model F20, format drives on the Model 800, restore back-up Model F20 data onto the Model 800.
- B. Relocate the physical drives from the Model F20 to the Model 800.
- C. Utilize an IBM Global Services data migration offering to migrate data from the Model F20 to the Model 800.
- D. Purchase Peer-to-Peer Remote Copy (PPRC) features to migrate the data from the Model F20 to the Model 800.

Answer: C

QUESTION 49:

Certkiller .com is planning to migrate from a IBM TotalStorage Enterprise Storage Server Model F20 to a IBM TotalStorage Enterprise Storage Server Model 800. What is the fastest non-disruptive method to perform the data migration?

- A. Backup and Restore
- B. PPRC
- C. FlashCopy V2
- D. SAN Volume Controller

Answer: B

QUESTION 50:

In a telemarketing company with rapidly growing storage and server needs, who would be BEST suited to manage the storage?

- A. TSM System Administrator
- B. Data Processing Shift Supervisor
- C. System Programming Manager
- D. Operations Manager

Answer: A

QUESTION 51:

In a telemarketing company with rapidly growing storage and server needs, who would be BEST suited to assume responsibility of maintaining FlashCopy scripts?

- A. Storage Administrator
- B. System Administrator
- C. Storage Area Network Administrator
- D. Database Administrator

Answer: A

QUESTION 52:

Certkiller .com is planning to consolidate their disk storage into a single IBM TotalStorage Enterprise Storage Server Model 800. Their environment consists of zSeries, iSeries and pSeries servers. The customer wants to utilize only one type of interface adapter on the ESS, which interface should be selected?

- A. SCSI-2 adapters
- B. SCSI-3 adapters
- C. ESCON adapters
- D. Fibre/FICON adapters

Answer: D

QUESTION 53:

What is the required minimum number of dedicated Fibre Channel Host Adapters on the IBM TotalStorage Enterprise Storage Server to support the implementation of a two node San Volume Controller Cluster?

- A. 1
- B. 2
- C. 4
- D. 8

Answer: B

QUESTION 54:

A UNIX/NT customer using an IBM TotalStorage Enterprise Storage Server (ESS) is complaining about performance, although the ESS was sized with Disk Magic. Which of the following tools should be used to run further analysis?

- A. ESS Specialist
- B. ESS Expert
- C. IOSTAT
- D. Perfmon

Answer: B

QUESTION 55:

Which of the following is the best tool to track performance trends on an IBM TotalStorage Enterprise Storage Server Model 800?

- A. IBM Tivoli Storage Resource Manager
- B. IBM ESS TotalStorage Expert
- C. IBM ESS TotalStorage Specialist
- D. IBM ESS Master Console

Answer: B

QUESTION 56:

Certkiller .com wants to create a data warehouse on an existing IBM TotalStorage Enterprise Storage Server Model 800. The current configuration has 16 eight packs of 36GB 15k RPM drives. The customer wants to add 10TB of disk capacity, and

cost is the major concern. Performance is the next priority. What would be the BEST configuration to accomplish the customer's requirement?

- A. 32 eight packs of 36GB, 15k RPM drives
- B. 24 eight packs of 72GB, 10k RPM drives
- C. 24 eight packs of 72GB, 15k RPM drives
- D. 12 eight packs of 145GB, 10k RPM drives

Answer: D

QUESTION 57:

Certkiller .com is adding an IBM eServer zSeries server to an existing open systems environment. The storage specialist has sold the concept of an IBM TotalStorage Enterprise Storage Server (ESS) Model 800 to the IT Manager in order to replace the storage on a number of Windows NT and Sun Solaris systems. The IT Manager needs approval from the Chief Financial Officer (CFO). Which of the following statements is most likely to appeal to the CFO?

- A. The ESS disk offers additional hardware cost savings over the existing storage infrastructure.
- B. The ESS has redundant components and no single point of failure, which will provide close to 100% availability (24x7x365).
- C. The ESS will offer significant productivity savings through the ESS Specialist.
- D. The ESS offers storage consolidation for the heterogeneous server platforms resulting in significant IT personnel savings.

Answer: D

QUESTION 58:

An IT Manager wants an IBM TotalStorage Enterprise Storage Server for their environment. Which of the following will help them meet their existing Service Level Agreements?

- A. The ESS has full redundancy and designed to provide 100% up time.
- B. The ESS is a centrally managed storage facility that will provide significant IT personnel savings.
- C. The ESS will offer significant productivity savings through the use of available configuration aids.
- D. The ESS is a high capacity storage device that will attach to multiple servers.

Answer: A

QUESTION 59:

An Authorized IBM Business Partner is selling an IBM TotalStorage Enterprise Storage Server (ESS) to a company. The company has multiple heterogeneous hosts running. Which of the following are the best sources of information for the Business Partner to validate that the ESS meets the requirements?

- A. IBM PartnerInfo and the ESS Quick Configuration Guide
- B. The ESS Installation and Planning Guide and the ESS Website
- C. The IBM TotalStorage Solutions Handbook and the IBM Client Representative
- D. The ESS Software Support Guide and PartnerInfo

Answer: B

QUESTION 60:

Certkiller .com wants to benchmark an IBM TotalStorage Enterprise Storage Server in their environment. What is the most important point that should be agreed upon prior to testing?

- A. That on-site assistance from IBM is limited to 1-day set-up and 2 days testing.
- B. That the results of the test must not be disclosed to IBM's competitors.
- C. That only an entire day's worth of data can be meaningfully benchmarked.
- D. That the testing is specific and measurable, such as service time at peak hour.

Answer: D

QUESTION 61:

Certkiller .com has purchased their first IBM TotalStorage Enterprise Storage Server (ESS) and is planning to run IBM FlashCopy Version 2. Which of the following BEST describes where the additional capacity may reside?

- A. On the same loop
- B. On the same device adapter pair
- C. On the same 8-pack
- D. On the same Enterprise Storage Server

Answer: D

QUESTION 62:

On the IBM TotalStorage Enterprise Storage Server (ESS), which of the following is the recommended way to produce a printed record of the logical storage configuration?

- A. Highlight volumes on the volume allocation page of the IBM ESS Specialist and press the PrtSc key.

- B. Install the IBM ESS Expert to print volume reports.
- C. Use the IBM ESS Specialist Print Table option in tabular view of the storage allocation panel.
- D. Use the system utilities on the host to print the data.

Answer: C

QUESTION 63:

In an IBM eServer zSeries account, a 1.6TB IBM TotalStorage Enterprise Storage Server (ESS) will be installed. It will need eight ESCON connections. There are only six spare channels on the host. The customer has suggested taking two channels off an IBM 9393 RAMAC Virtual Array (RVA) for the ESS. The RVA currently has eight channels with a peak utilization of 45% busy per channel. Which of the following is the best technical recommendation?

- A. Channels should not be taken off the RVA because the peak 45% busy is already too high.
- B. If the number of channels is reduced, the customer will need to install load balancing software on the host.
- C. OS/390 will balance out RVA channel usage and the average channel busy will peak at 60%, which is acceptable.
- D. The ESS does not need eight channels, so install it with only six channels.

Answer: C

QUESTION 64:

Certkiller .com has an IBM TotalStorage Enterprise Storage Server Model 800 and wants to understand the impact on the current environment if 4 fibre channel host adapters are added. The current configuration has 24 Ultra SCSI ports installed, in a high availability configuration. Which of the following best describes what the customer should expect?

- A. No down time because installation is concurrent
- B. One hour down time for adapter swap
- C. 4 hours to replace 4 SCSI ports with 4 Fibre Channel ports
- D. 8 or more hours for software and adapter change

Answer: A

QUESTION 65:

Certkiller .com is extremely large and has a high-availability, mission-critical application. The customer is considering installing IBM TotalStorage Enterprise Storage Server (ESS) to replace older EMC Symmetrix systems. The customer is

concerned about the length of time required to move the data from Symmetrix to ESS. Which of the following data migration options should the customer take?

- A. Use IBM TotalStorage SAN File System to migrate the data.
- B. Use EMC's Symmetrix Data Migration Facility to move the data to ESS.
- C. Use IBM Global Services data migration services to move data.
- D. Use PPRC to mirror data between Symmetrix and ESS.

Answer: C

QUESTION 66:

All of the following should be considered when migrating IBM eServer zSeries data to an IBM TotalStorage Enterprise Storage Server EXCEPT

- A. Data migration tools.
- B. HCD definitions.
- C. Linux FCP planning.
- D. Fibre Channel zones.

Answer: D

QUESTION 67:

Certkiller .com has an IBM Enterprise Storage Server Model 800 with 10 eight-packs formatted as Fixed Block volumes. There is not enough unused space on the RAID ranks to act as FlashCopy targets for the existing LUNs. Which of the following should the storage specialist propose to enable the customer to shorten their backup window?

- A. Add FlashCopy Version 1 and use data set level FlashCopy
- B. Add FlashCopy Version 2 and additional capacity
- C. Add FlashCopy Version 1 and use NOCOPY option
- D. Add FlashCopy Version 2 and use incremental FlashCopy

Answer: B

QUESTION 68:

When comparing FlashCopy Version 1 with Version 2, which of the following is the most significant enhancement that reduces the data backup window?

- A. Version 2 allows 15K RPM drives to be used as target devices on the ESS model 800.
- B. Version 2 will exploit the new four way micro processors and 100% Cache Fast Write capabilities of the ESS.
- C. Version 2 can establish 256 FlashCopy volume relationships more quickly.

D. Version 2 will exploit the 2Gbps Fibre Channel adapters on the ESS model 800.

Answer: C

QUESTION 69:

An IBM TotalStorage Enterprise Storage Server (ESS) has been configured with four SCSI host adapters and four ESCON host adapters. Which design characteristic of the ESS gives the best arrangement for high availability?

- A. Adapters are evenly distributed between bays.
- B. SCSI adapters are in different bays from ESCON adapters.
- C. Primary adapters are in odd-numbered slots, and alternate adapters in even-numbered slots.
- D. Primary adapters are in even-numbered slots, and alternate adapters in odd-numbered slots.

Answer: A

QUESTION 70:

Certkiller .com has been using an IBM TotalStorage Enterprise Storage Server (ESS) Model F20 with the reserved loop option and four existing IBM TotalStorage 7133 Serial Disk System Advanced Model D40s (7133-D40). When sizing an ESS Model 800 replacement, the storage specialist should consider which of the following?

- A. RAID ranks are different sizes between 8-packs and 7133s, therefore, capacity should be carefully calculated.
- B. The capacity of the IBM 7133-D40s will need to be replaced with 8-pack capacity.
- C. The IBM 7133-D40s will have different performance characteristics; therefore, the data layout should be planned to avoid hotspots.
- D. The customer can now use RAID-5 or RAID-10 on the 8-packs and 7133s, and RAID-10 will have less usable 7133 capacity than RAID-5.

Answer: B

QUESTION 71:

When conducting a solutions assurance meeting for IBM eServer zSeries server attached disk solutions, in which bucket should the operating system update information be made available?

- A. CPI
- B. HDC
- C. PSP
- D. OSI

Answer: C

QUESTION 72:

If an IBM Business Partner sells an IBM TotalStorage Enterprise Storage Server (ESS) system to Certkiller .com, who is responsible for ensuring that the solution assurance for the ESS takes place prior to installation?

- A. The customer
- B. The IBM Installation Readiness Team
- C. IBM Advanced Technical Support
- D. The Business Partner

Answer: D

QUESTION 73:

Certkiller .com is installing an IBM TotalStorage Enterprise Storage Server Model 800 expansion frame. How many additional three-phase power receptacles are required?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

QUESTION 74:

A storage specialist is planning for installation of an IBM TotalStorage Enterprise Storage Server at a large, extremely demanding customer location. There is a very short time window for system installation. To help ensure a successful system installation, it is most important that:

- A. An IBM Facilities Planning Engineer is on site.
- B. An IBM Customer Engineer Manager is on call or on site.
- C. An IBM Customer Engineer specializing in storage is on site.
- D. An IBM Database Specialist is on site.

Answer: C

QUESTION 75:

An IBM Business Partner has planned an installation on an IBM TotalStorage

Enterprise Storage Server. In addition to the customer and the Business Partner, who should be involved in installation planning?

- I. IBM Customer Engineer**
- II. IBM Storage Specialist**
- III. IBM Client Representative**
- IV. IBM Installation Planning Representative**

- A. I and IV only
- B. II and III only
- C. I, II, and IV only
- D. I, II, III, and IV

Answer: A

QUESTION 76:

Certkiller .com called an IBM Customer Engineer five times in the last three weeks about availability issues related to a 2105-800. The IT Director has lost all confidence in the product. What is the most appropriate course of action for IBM?

- A. Extend the warranty another six months
- B. Involve higher-level technical support
- C. Monitor data center power for 24 hours
- D. Provide mechanical replacement

Answer: B

QUESTION 77:

The IBM Customer Engineer successfully completed an ESS system installation. The ESS is connected to an IBM eServer zSeries server, several IBM eServer pSeries servers, HP and SUN UNIX servers, and 12 Microsoft Windows servers. The customer calls the IBM Support Center requesting additional assistance after the installation. What is the most likely reason for the call?

- A. The ESS is unable to initiate a phone-home call for service.
- B. The ESS is too heavy for the customer's raised floor.
- C. zSeries batch applications complete too fast.
- D. One of the Microsoft Windows servers cannot access a desired LUN.

Answer: D

QUESTION 78:

Certkiller .com wants to migrate AIX data from an old SCSI RAID array to a newly installed IBM TotalStorage Enterprise Storage Server (ESS) Model 800. An extended server outage cannot be scheduled for migration. If the server has

available slots for adapters, which of the following is the best choice?

- A. Backup to tape and restore data to ESS.
- B. Contract IGS to move the disk drives from old system to new.
- C. Copy the data from the old RAID array to the ESS.
- D. Copy the data to a test server and then to the ESS.

Answer: C

QUESTION 79:

Which of the following is the best data migration method for an IBM eServer pSeries server?

- A. IBM Migration Service with TDMF
- B. FlashCopy
- C. DFSMSdss
- D. PPRC

Answer: D

QUESTION 80:

An existing HP customer has decided to purchase an IBM TotalStorage Enterprise Storage Server (ESS) to consolidate storage. In addition to purchasing new capacity, the customer wants to migrate data from another storage server to the ESS. Which of the following would be the best solution to suggest to this customer?

- A. Contract with IBM Global Services to install the IBM TotalStorage Multiple Device Manager
- B. Engage IBM Global Services to migrate the data to ESS since it is free of charge for new ESS installations.
- C. Contract with IBM Global Services to migrate the data to ESS as a separate fee-based offering to the customer.
- D. Engage the IBM Customer Engineer to use the IBM TotalStorage Enterprise Storage Server Specialist to migrate the customer's data.

Answer: C

QUESTION 81:

A new IBM TotalStorage Enterprise Storage Server (ESS) customer needs to transfer data from an existing Sun UE10000 and several Compaq Microsoft Windows servers to the ESS. Which service offering from IBM Global Services would be the most cost effective for this purpose?

- A. IBM Data Migration Services with Hardware Assistance (Piper)
- B. IBM SmoothStart for ESS
- C. ESS Operational Support Services
- D. ESS On-Site Technical Support Service

Answer: A

QUESTION 82:

In performing a data migration using DFSMS, which of the following tasks are necessary?

- I. Microcode review
- II. Data classification
- III. ACS routine
- IV. Backup of data

- A. I and III only
- B. II and IV only
- C. I, III, and IV only
- D. II, III, and IV only

Answer: D

QUESTION 83:

If an IBM eServer zSeries customer with a 24 X 7 operation wants to move data from an IBM 9393 RAMAC Virtual Array (RVA) to an IBM TotalStorage Enterprise Storage Server (ESS) with the least possible disruption, the best method would be:

- A. SnapShot the data on the RVA, back up the data to tape, restore the data onto the ESS, and switchover to the ESS.
- B. Install Data Migration Services with Hardware Assistance (Piper) tool to copy data from the RVA to the ESS and transparently switch over.
- C. Install an ESS, allocate new data sets onto the ESS, and when the RVA has less than 5% data on it, back up the data and restore it to the ESS from tape.
- D. PPRC between the RVA and the ESS, and when volumes are synchronized, switch over to the ESS.

Answer: B

QUESTION 84:

Certkiller .com would like to reallocate the storage on their IBM TotalStorage Enterprise Storage Server (ESS) after the initial logical configuration has been performed. Which of the following tools does the customer need to learn in order to perform this function?

- A. IBM TotalStorage ESS Specialist
- B. IBM TotalStorage ESS Expert
- C. IBM TotalStorage Configuration Manager
- D. IBM Tivoli Storage Resource Manager

Answer: A

QUESTION 85:

Certkiller .com has an existing IBM TotalStorage Enterprise Storage Server attached to a zSeries server via ESCON. They will be adding an additional ESS connected to 20 new pSeries Servers via Fibre Channel. Which of the following is the most appropriate customer training recommendation?

- A. Fibre Switch Implementation
- B. Copy Services Implementation
- C. pSeries Performance Tuning
- D. SAN Architecture and Problem Determination

Answer: D

QUESTION 86:

Certkiller .com has a 12.6TB usable capacity IBM TotalStorage Enterprise Storage Server (ESS) that is using 72.8GB disk drives. The ESS is configured with 6TB for open, 3.3TB for z/OS and 3.3TB for VM/VSE, with FlashCopy feature code #8309 (cap up to 16TB) and PAV feature code #8002 (capacity up to 3TB). The ESS cannot be configured for which of the following reasons?

- A. The FlashCopy feature is incorrect.
- B. The PAV feature code should be feature code #8003 (capacity up to 4TB).
- C. The PAV feature code should be feature code #8006 (capacity up to 8TB).
- D. The PAV feature code should be feature code #8005 (capacity up to 6TB).

Answer: C

QUESTION 87:

Certkiller .com has an 840GB IBM TotalStorage Enterprise Storage Server (ESS) Model F20, using 9.1GB disk drives. The ESS is attached to an IBM eServer zSeries server and two Sun UE10000 Unix servers. The customer needs an additional 250GB for a SUN server application. However, there is no space next to the base frame, and there is no floor loading capability for adding an expansion frame. Some of the current capacity is production, and some of the capacity is test; usage is separated on different loops.

Given this situation, which of the following offers the most efficient upgrade path?

- A. Because the Model F20 base frame is not at maximum capacity, the sales team should propose additional 9.1GB 8-packs and an expansion frame, and use the ESS capability to separate base and expansion frames.
- B. Because the Model F20 base frame is not at maximum capacity, the sales team should propose a pair of 72GB drives to handle the customer requirement for the 250GB SUN application.
- C. Because the Model F20 base frame is at maximum capacity, the sales team should propose 8-pack feature exchange for higher capacity drives. The plan should involve migration of test data first, followed by production data.
- D. Because the Model F20 base frame is at maximum capacity, the sales team can only propose a new Model 800 with ten 18GB 8-packs. The plan should involve migration of test data first, followed by production data.

Answer: C

QUESTION 88:

Certkiller .com is experiencing slow performance from one cluster on their IBM TotalStorage Enterprise Storage Server. The customer has the IBM StorWatch Expert installed. What IBM StorWatch Expert report would BEST help identify I/O workload distribution among the loops?

- A. Logical Volume Reports
- B. Disk Group Reports
- C. Cluster Reports
- D. SSA Device Adapter Reports

Answer: D

QUESTION 89:

An IBM TotalStorage Enterprise Storage Server (ESS) customer wants to increase disk performance on a heavily loaded Sun server that has a single ESS SCSI connection. The system is in a 24 X 7 environment. Which of the following would be the best course of action?

- A. Increase the ESS cache size.
- B. Add more disks and increase the number of LSS.
- C. Install a second SCSI path to the ESS and use multi-path software.
- D. Exchange the SCSI connection for Fibre Channel.

Answer: C

QUESTION 90:

Certkiller .com is installing a new server for a test environment. To use actual data for the test system, the customer wants to make frequent flashcopies of production data. The storage specialist will be using the Command Line Interface (CLI) Tool on an open systems server. The specialist should ensure which of the following before the CLI can be used?

- A. A Web Browser is installed to access the ESS Web interface.
- B. The DNS or the host list is configured to include the new server.
- C. SNMP Services are enabled on the server.
- D. An additional FC path is available for inband communications.

Answer: B

QUESTION 91:

All of the following characteristics of an application workload are important when understanding Certkiller .com's performance requirements EXCEPT

- A. I/O rate.
- B. throughput.
- C. R/W mix.
- D. database size.

Answer: D

QUESTION 92:

Certkiller .com is reviewing a proposal for a new pSeries 650 running a 2TB Oracle database attached to an IBM TotalStorage Enterprise Storage Server, with 72GB drives totaling 3.3TB of usable capacity. The customer wants to maximize performance. Which of the following LUN configurations will accomplish the customer's requirement?

- A. Create database and archive logs on RAID-5 LUNs spread across all disk ranks.
- B. Create database and archive logs on RAID-10 LUNs spread across all disk ranks.
- C. Create databases on RAID-5 LUNs spread across all disk ranks, and create database and archive logs on RAID-10 LUNs spread across all disk ranks.
- D. Create database and archive logs on the minimum number of RAID-5 ranks to allow for future expansion.

Answer: A

QUESTION 93:

Which of the following statements is NOT true about the performance of RAID alternatives with the IBM TotalStorage Enterprise Storage Server (ESS) Model

800?

- A. For many environments, RAID-5 provides the required performance and uses less physical capacity.
- B. RAID-10 always provides noticeably higher performance for normal and moderate workloads.
- C. Large cache and sophisticated caching algorithms can handle much of the I/O workload for both RAID-5 and RAID-10.
- D. RAID-10 can offer better performance than RAID-5 for high stress random write content workloads.

Answer: B

QUESTION 94:

Which of the following statements is true about RAID levels of the IBM TotalStorage Enterprise Storage Server (ESS) Model 800?

- A. RAID-5 optimizes storage price/performance.
- B. RAID-10 offers better performance for sequential writes applications.
- C. RAID-10 requires load balancing.
- D. RAID-5 offers better performance for high random write applications.

Answer: A

QUESTION 95:

The IBM TotalStorage Enterprise Storage Server uses which of the following methods when it transfers sequential data to disk?

- A. Fast Destage
- B. Byte Multiplexing
- C. 100% Write Caching
- D. Full-Stripe Writes

Answer: D

QUESTION 96:

Which of the following is a unique feature of the IBM TotalStorage Enterprise Storage Server that is responsible for its exceptional performance?

- A. SSA architecture
- B. Advanced Processors
- C. 100% Write Caching using NVS
- D. High performance disk drives

Answer: A

QUESTION 97:

Certkiller .com has one IBM eServer zSeries server split into two logical partitions. One LPAR runs a response-time sensitive, on-line application, while the other LPAR runs a data-mining application. To attain acceptable on-line performance, the DB2 database was duplicated to eliminate I/O contention. This doubled the cost of storage for the database. The customer would like to save money by sharing one copy of the database and maintain acceptable performance in the two logical partition environment.

Which of the following IBM TotalStorage Enterprise Storage Server capabilities would allow this?

- A. Parallel Access Volumes
- B. Concurrent Database Access Facility
- C. Priority I/O Queuing
- D. Multiple Allegiance

Answer: D

QUESTION 98:

A large application is being implemented. The application processes thousands of small transactions per hour. To provide the best performance for the customer, the most important aspect to consider when selecting a storage solution is

- A. MB per second throughput.
- B. bus arbitration overhead.
- C. disk I/O's per second.
- D. LUN size.

Answer: C

QUESTION 99:

Certkiller .com has 1TB of EMC disk installed on an IBM eServer zSeries server. In order to determine the proper configuration for an IBM TotalStorage Enterprise Storage Server solution that could replace the subsystem, which of the following tools would be used in combination with the customer's RMF data?

- A. IBM Disk Magic
- B. DFSMS Optimizer
- C. IBM TotalStorage Expert
- D. IBM TDMF

Answer: A

QUESTION 100:

The IBM TotalStorage Enterprise Storage Server Expert provides information about

- A. internal ESS performance.
- B. individual host adapter performance.
- C. software installed on hosts.
- D. I/O bottlenecks.

Answer: A

QUESTION 101:

Certkiller .com has an IBM TotalStorage Enterprise Storage Server Model 800 with sixteen (16) 8-packs of 72.8GB drives. What is the range of usable capacities for this configuration?

- A. 3.9TB to 6.7TB
- B. 4.6TB to 6.7TB
- C. 3.9TB to 9.3TB
- D. 6.7TB to 9.3TB

Answer: A

QUESTION 102:

Certkiller .com has a IBM TotalStorage Enterprise Storage Server Model 800 with 16 eight-packs of 72.8GB drives in a RAID-5 configuration. The customer added two additional eight-packs of 72.8GB drives to the ESS. What is the net increase in usable RAID-5 storage?

- A. 561.04GB
- B. 841.80GB
- C. 982.16GB
- D. 1164.80GB

Answer: C

QUESTION 103:

What is the MINIMUM number of disk 8-packs that can be specified on an initial order of a new IBM TotalStorage Enterprise Storage Server Model 750?

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

Answer: A

QUESTION 104:

Certkiller .com has a 1.6TB IBM TotalStorage Enterprise Storage Server (ESS) attached to the following:

- * One mid-sized IBM eServer zSeries server with eight ESCON channel interfaces
- * Eight UNIX servers (each with two SCSI buses)
- * Eight Windows NT servers each with a single SCSI connection

The customer needs an extra 400GB to support two powerful new SAN-capable clustered Microsoft Windows servers. Performance and cost are important considerations. What should be done?

- A. Eliminate four ESCON channels and install two new Fibre Channel host adapters in their place.
- B. Upgrade the ESS and some existing servers to support Fibre Channel adapters and install a SAN.
- C. Purchase another ESS.
- D. Purchase new IBM 7133 Serial Disk System capacity with IBM TotalStorage 7140 SAN Controller 160 routers.

Answer: B

QUESTION 105:

Certkiller .com has installed an IBM TotalStorage Enterprise Storage Server Model 750. A performance analysis has determined that the customer needs more cache for a new workload. What is the maximum cache that is available for this model?

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

Answer: B

QUESTION 106:

Certkiller .com has had a problem record open for several days. The problem needs to be escalated to the next support level. Which of the following facilities should be

used to escalate the call?

- A. IBM Electronic Service Request System
- B. IBM Electronic Service Agent
- C. IBM Global Services
- D. IBM Consult Line

Answer: A

QUESTION 107:

Certkiller .com wants to attach an unsupported operating system to an IBM TotalStorage Enterprise Storage Server. What must the customer do to perform this operation?

- A. Open a PMR with Support Line.
- B. Ask the CE to attach the server.
- C. Request an RPQ.
- D. Attach the server and let the operating system dynamically configure the host ports.

Answer: C

QUESTION 108:

Based on recent product announcements such as SAN Volume Controller and SAN File System, which of the following best describes IBM's storage networking strategy?

- A. Offer all storage products with a RISC/POWER processor to maximize development synergy.
- B. Build best-of-breed SAN components (switches/directors) and integrate with leading storage vendors.
- C. Preserve customer storage and SAN investment by continually retrofitting function into existing components.
- D. Move capabilities of intelligent controllers into the SAN and introduce new capabilities across the SAN.

Answer: D

QUESTION 109:

When Certkiller .com requests more information on IBM's Network Attached Storage (NAS) strategy, the storage specialist can highlight which of the following attributes?

- A. IBM has aligned with industry-standard Windows-powered NAS appliances and

focuses on integrating xSeries-unique enhancements.

B. IBM has recognized the convergence of SAN and NAS environments and has introduced a powerful NAS gateway to exploit this storage opportunity.

C. IBM has focused on a superior SAN virtualization appliance, the SAN Volume Controller, and will phase out NAS from the portfolio.

D. IBM has developed a NAS "blade" that exploits xSeries BladeCenter technology and minimized cost of management and deployment.

Answer: B

QUESTION 110:

Which two of the following most accurately describe the two extremes of storage hierarchy?

I. High performance at low cost

II. High performance at high cost

III. Large capacity at low cost

IV. Large capacity at high cost

A. I and III

B. I and IV

C. II and III

D. II and IV

Answer: C

QUESTION 111:

Certkiller .com is considering hierarchical storage and wants to understand the relationship between price and performance. Which of the following is the correct order if storage is ordered from lowest to highest performance (access time to required record at midpoint of the volume)?

I. High performance at low cost

II. High performance at high cost

III. Large capacity at low cost

IV. Large capacity at high cost

A. IV, II, I, III

B. II, IV, I, III

C. IV, II, III, I

D. II, IV, III, I

Answer: B

QUESTION 112:

A primary concern of Certkiller .com is ensuring business continuance in an open systems environment. In this situation, a storage specialist should recommend which

of the following IBM TotalStorage Enterprise Storage Server features?

- A. Non-volatile Storage (NVS)
- B. RAID-10
- C. Peer-to-Peer Remote Copy (PPRC)
- D. Consistency groups w/ FlashCopy version 2

Answer: C

QUESTION 113:

IBM Tivoli Storage Manager in a SAN environment provides which of the following capabilities?

- A. True data sharing for heterogeneous hosts
- B. Disk pooling for heterogeneous hosts
- C. Backup and restore of data
- D. Reconfiguration capabilities for SAN switches

Answer: C

QUESTION 114:

Certkiller .com's requirements include storage consolidation and high availability on ten mission critical servers. There are SAP applications running on IBM eServer pSeries servers that must be online 24x7x365. In addition to the IBM Enterprise Storage Server, what else should be recommended in order to achieve high availability?

- I. Subsystem Device Driver
- II. High Availability Clustering
- III. Multiple Fibre Channel directors
- IV. IBM ESS Copy Services

- A. I, II, and IV only
- B. II, III, and IV only
- C. I, II, and III only
- D. I, II, III, and IV

Answer: D

QUESTION 115:

A business partner is designing a storage subsystem, including pSeries, fibre channel connectivity and ESS. Why is it important to connect across as many ESS host bays as possible?

- A. Applications have greater throughput capability.

- B. Spreading across the bays allows workload balancing.
- C. The ESS host bays provide data redundancy for applications.
- D. Host adapter upgrades to the ESS will not incur downtime to applications.

Answer: D

QUESTION 116:

If cost-efficient utilization of data storage is a key requirement of an organization's backup/restore strategy, the technology that would best address the organization's needs would be

- A. RAID
- B. HSM
- C. PPRC
- D. GDPS

Answer: B

QUESTION 117:

In a z/OS environment, which of the following provides the highest level of automation and application data protection?

- A. XRC
- B. DFSMSdfp
- C. GDPS
- D. PPRC

Answer: C

QUESTION 118:

All of the following capabilities are supported by the SAN Volume Controller EXCEPT

- A. host access via SVC control and direct SAN attachment using separate Managed Disks (Mdisk) and Virtual Disks (Vdisk).
- B. multipath access to SVC from hosts using SDD and multipath access from SVC to disk system.
- C. end-user access to SVC-managed capacity via IBM TotalStorage NAS 500 Gateway.
- D. host access to virtual LUNs physically located on different disk systems.

Answer: A

QUESTION 119:

Which of the following describes the advanced capabilities of the SAN Volume Controller (SVC)?

- A. SVC provides and manages simultaneous host access using "LUN locking" allowing multiple hosts access to the same LUN with integrity.
- B. SVC exploits the native advanced function capabilities (e.g. FlashCopy) of the underlying disk systems, easing migration to an SVC environment.
- C. SVC manages SAN zoning to balance available paths between clusters, providing the best possible performance with available resources.
- D. SVC creates pools of managed disks spanning multiple storage systems and allows storage administrators to migrate from one disk system to another without taking it offline.

Answer: D

QUESTION 120:

Which product allows data sharing?

- A. DFSMS
- B. MDM
- C. SFS
- D. SVC

Answer: C

QUESTION 121:

A company has 14 departments that have various applications running on Intel servers connected via LAN. Each of the servers uses a mix of internal and external disk storage. Storage consolidation will benefit this customer MOST by

- A. reducing maintenance cost of disk.
- B. reducing storage management costs.
- C. providing improved performance.
- D. improving disk capacity utilization.

Answer: B

QUESTION 122:

Certkiller .com with Microsoft Windows 2000 Servers needs 1TB of high-performance disk storage and will need another 400GB attached to IBM eServer pSeries servers the following year. If the customer's initial budget is

restricted, which of the following products should be recommended?

- A. IBM TotalStorage Enterprise Storage Server
- B. IBM TotalStorage DR450
- C. IBM TotalStorage EXP100
- D. IBM TotalStorage FAStT900 Storage Server

Answer: D

QUESTION 123:

A large e-business retailer has an IBM TotalStorage Enterprise Storage Server (ESS) attached to an IBM eServer pSeries server. The retailer has accumulated a large volume of customer data in a DB2 database and wants to implement a data mining application to analyze the information in the database. The retailer also wants to establish a "zero data loss" disaster recovery site approximately two kilometers away from the current site.

Which of the following is the best ESS copy solution for these requirements?

- A. IBM FlashCopy
- B. Concurrent Copy
- C. IBM FlashCopy and Extended Remote Copy
- D. IBM FlashCopy and Peer-to-Peer Remote Copy

Answer: D

QUESTION 124:

How are IBM TotalStorage Enterprise Storage Server (ESS) copy functions most commonly invoked in an IBM eServer zSeries environment?

- A. Using the IBM ESS Specialist Copy Services menu and selecting the volumes to copy
- B. Using the IBM ESS Command Line Interface (CLI) to copy the volumes
- C. Using z/OS software such as DFSMSdss to invoke Copy services
- D. Having the zSeries operator invoke Copy services for a dataset from a new ISPF panel

Answer: C

QUESTION 125:

Which of the following is NOT a method for invoking FlashCopy in the z/OS environment?

- A. IBM Tivoli Storage Manager for Hardware
- B. IBM TotalStorage Enterprise Storage Server Specialist
- C. TSO/E commands

D. DFSMSdss

Answer: A

QUESTION 126:

In a UNIX environment, all of the following methods can be used to invoke FlashCopy on the IBM TotalStorage Enterprise Storage Server (ESS) EXCEPT

- A. mklvcopy
- B. ESS Specialist
- C. Command Line Interface (CLI)
- D. IBM Tivoli Storage Manager for Hardware

Answer: A

QUESTION 127:

If Certkiller .com is running PPRC with four (4) ESCON links, what is the MAXIMUM number of FICON ports that can be configured on the IBM TotalStorage Enterprise Storage Server?

- A. 12
- B. 14
- C. 15
- D. 16

Answer: B

QUESTION 128:

A zSeries customer is planning to deploy the IBM Enterprise Storage Server Model 750 in regional data centers throughout the country. The main data center with ESS Model 800 will serve as the disaster recovery facility for the remote sites. Which of the following advanced functions can the customer implement to meet their DR requirements?

- A. XRC
- B. PPRC
- C. FlashCopy
- D. PAV

Answer: B

QUESTION 129:

When configuring the IBM TotalStorage Enterprise Storage Server for an IBM eServer zSeries environment, what is the maximum number of base + alias addresses allowed per LCU?

- A. 256
- B. 128
- C. 85
- D. 32

Answer: A

QUESTION 130:

Parallel Access Volumes (PAV) is designed to improve performance by reducing which of the following?

- A. Cache hits
- B. Pend time
- C. Disk utilization
- D. I/O Supervisor Queue (IOSQ) time

Answer: D

QUESTION 131:

Which of the following operating systems can benefit from the Multiple Allegiance feature of the IBM TotalStorage Enterprise Storage Server?

I. OS/390

II. z/OS

III. z/VM

IV. VSE/ESA

- A. I and II only
- B. II and III only
- C. I, II, and III only
- D. I, II, III, and IV

Answer: D

QUESTION 132:

Where is Multiple Allegiance implemented?

- A. In the ESS Licensed Internal Code
- B. In the ESS Specialist Configure LUNs
- C. In the ESS Expert Volume Activity Report
- D. In the Hardware Control Definition

Answer: A

QUESTION 133:

What is the maximum number of IBM Enterprise Storage Servers that can be monitored by IBM TotalStorage Enterprise Storage Server Expert?

- A. 3
- B. 5
- C. 7
- D. 9

Answer: C

QUESTION 134:

Certkiller .com has a mixed Microsoft Windows, AIX and OS/390 workload on an IBM TotalStorage Enterprise Storage Server (ESS) Model 800 with 8 GB of cache. I/O performance has been degrading on the IBM eServer zSeries server. The customer suspects that open systems workload may be impacting the zSeries performance. What reports should be analyzed to help diagnose the problem?

- A. RMF DASD Activity Report and ESS Expert Cache and Disk Reports
- B. IOSTAT and ESS Specialist LUN Allocation Reports
- C. Performance Monitor and ESS Expert Summary Report
- D. ESS Expert S/390 Capacity Report and Disk Magic

Answer: A

QUESTION 135:

Certkiller .com has a 3.36TB IBM TotalStorage Enterprise Storage Server Model 800 that uses 36GB 8-packs. The customer is interested in purchasing four additional 8-packs of 72GB drives in preparation for a future Oracle application. How much additional RAID-5 protected capacity does the customer get with four additional 72GB 8-packs?

- A. 1.68TB
- B. 1.82TB
- C. 1.96TB
- D. 2.24TB

Answer: A

QUESTION 136:

When using IBM TotalStorage Enterprise Storage Server Specialist for the first time, what should be done?

- A. Format all 8-packs
- B. Create users with operator authority
- C. Change the password and user id
- D. Configure the first 8-pack on each LSS

Answer: C

QUESTION 137:

A storage administrator has completed configuration and assignment of all LUNs for a new Oracle application that will "go live" the next day. The Chief Information Officer (CIO) wants to obtain information about the configuration. Which of the following IBM TotalStorage Enterprise Storage Server (ESS) Specialist authorizations should the CIO be given?

- A. View
- B. Guest
- C. Configure
- D. Administrator

Answer: A

QUESTION 138:

What is the maximum number of logical disks that can be supported in a single LSS?

- A. 128
- B. 256
- C. 512
- D. 1024

Answer: B

QUESTION 139:

What is the maximum distance of a Fibre Channel connection using a long wave SFP without fibre extenders?

- A. 500 meters
- B. 10 kilometers

- C. 103 kilometers
- D. unlimited

Answer: B

QUESTION 140:

Which of the Fibre Channel topologies is best described by the following characteristics?

- * Supports up to 127 nodes
- * Can be used in combination with switched networks
- * All devices share a bus bandwidth

- A. Point-to-point
- B. Fabric
- C. Arbitrated loop
- D. Switched

Answer: C

QUESTION 141:

How is RAID-5 performance enhanced on the IBM TotalStorage Enterprise Storage Server?

- A. The parity is generated more efficiently by RISC processors.
- B. The parity is contained in the ESS Cache.
- C. The parity is buffered in the NVS.
- D. The parity is generated by each SSA adapter.

Answer: D

QUESTION 142:

When implementing a RAID-5 configuration on an IBM TotalStorage Enterprise Storage Server, what feature of the RAID set helps to improve performance?

- A. SCSI Command Tag Queuing
- B. Non-Volatile Storage (NVS)
- C. Sequential Pre-Fetch I/O Requests
- D. Floating Parity Disk

Answer: D

QUESTION 143:

Certkiller .com is preparing to migrate an application from a mirrored storage environment to the IBM TotalStorage Enterprise Storage Server (ESS). What characteristic of the ESS should be described to the customer in order to explain how the ESS minimizes the RAID-5 penalty?

- A. Full-stripe writes
- B. I/O priority queuing
- C. SCSI command tag queuing
- D. SSA Loop Bandwidth

Answer: A

QUESTION 144:

The IBM TotalStorage Enterprise Storage Server Model 800 introduced new cache and NVS offerings. Which statement best describes the benefits of this enhancement?

- A. Data that will not fit in regular cache can "spill over" to NVS, keeping performance high.
- B. Larger NVS provides a larger resource to absorb "spikes" in update activity, reducing the chance of NVS overruns.
- C. Advanced applications, such as SAP, can set I/O priority queuing to direct activity to regular cache or NVS.
- D. Advanced applications, such as SAP, can exploit adaptive caching to direct I/O to regular cache or NVS as each resource is available.

Answer: B

QUESTION 145:

Which of the following IBM TotalStorage Enterprise Storage Server capabilities is NOT an example of an Autonomic Computing self-healing characteristic?

- A. RAID 5
- B. CUIR
- C. PAV
- D. Hot sparing

Answer: C

QUESTION 146:

In alignment with IBM On-Demand strategy, which of the following storage directions allows the greatest flexibility with the disk subsystem?

- A. Multiple Device Manager
- B. Capacity Upon Demand
- C. SAN File System
- D. Storage Virtualization

Answer: D