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Vendor: IBM

Exam Code: C4090-454

Exam Name: IBM High-End Tape Technical Solutions V7

Version: Demo

QUESTION: 1

In a TS3500 with ALMS enabled, which task can be completed by using the operator panel only, but not by using the Tape Library Specialist Web interface?

- A. Create or remove a logical library
- B. View or change the preferred zone of an accessory
- C. Disabling or changing the speed of the Ethernet link
- D. Installing licensed features of the library such as capacity on demand

Answer: C

QUESTION: 2

An existing TS7740 customer has chosen to upgrade with additional 200 MB/sec Enablement and 7 TB Tape Cache. Which of the following is the best business objective on the above upgrade?

- A. The customer would like to improve OLTP application response time
- B. The customer would like to improve the RTO (Recovery Time Objective)
- C. The customer would like to improve the RPO (Recovery Point Objective)
- D. The customer would like to improve the tape backup jobs processing time

Answer: D

QUESTION: 3

An existing single cluster TS7740 customer needs to double the backup throughput from 500 MB/sec to 1000 MB/sec.

This customer currently has a 3957-VOI configured with:

- 1 3956-CC8 controller
- 5 x 100 MB/sec Enablement
- 6 x 1 TB Cache Enablement
- 4 x FICON Long wave Attachment

Which of the following would fulfill the above upgrade requirements?

- A. Additional: 5 x 100 MB/sec Enablement 21 TB of 3956-CX7
- B. Additional: 5 x 100 MB/sec Enablement 14 x 1 TB Cache Enablement 4 x FICON Longwave Attachment
- C. Additional: 5 x 100 MB/sec Enablement 14 x 1 TB Cache Enablement 4 x FICON Longwave Attachment 14 TB of 3956- 0X7
- D. Additional: 5 x 100 MB/sec Enablement 14 x 1 TB Cache Enablement 2 x 1 GB Grid Dual Port Copper Connection 14 TB of 3956-CX7

Answer: A

QUESTION: 4

A customer is experiencing elongated batch job run time problems on a two-way T67700 grid during the last 24 hours. What statistics should be evaluated first to review the performance of the TS7700?

- A. RMF data
- B. BVIR historical data
- C. SMF Type 70-78 record
- D. Channel utilization reports

Answer: D

QUESTION: 5

What drive types are supported in the IBM TS3300 Tape Library?

- A. LTO drives only
- B. TS11x0 drives only
- C. Both LTO and DLT drives
- D. Both LTO and TS11x0 drives

Answer: B

QUESTION: 6

Which two application workload characteristics have the greatest impact on the throughput performance of the TS7700 Virtualization Engine? (Select two)

- A. File size
- B. Block size
- C. Read/write ratio
- D. Compression ratio
- E. Number of tape drives utilized

Answer: B, D

QUESTION: 7

What is the maximum speed of a single EICON adapter in 3957-VFJ7 running R2.1 microcode?

- A. 2 Gbps
- B. 4 Gbps
- C. 8 Gbps
- D. 16 Gbps

Answer: B

QUESTION: 8

What is the maximum number of 3490 control units that can be defined in HOD for a TS7700?

- A. 16
- B. 32
- C. 64
- D. 256

Answer: A

QUESTION: 9

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Answer: A

QUESTION: 10

Which company is a key competitor to IBM in the enterprise tape area?

- A. HP
- B. HDS
- C. Oracle

D. Quantum

Answer: C

QUESTION: 11

What is a valid implementation for in-band encryption in z/OS using TS1 130 or TS1140 drives?

- A. LME with TS7700 and encryption configuration feature
- B. AME with TS1130 and appropriate software and device driver
- C. SME with 007 controller and CU encryption configuration feature
- D. LME with C07 controller and CU encryption configuration feature

Answer: C

QUESTION: 12

A customer has an installed TS3500 Tape Library with one L23 frame with only four TS1140 model drives. All are currently attached to open systems servers. The library and drives are being moved to another location and attached to a local z/OS system. Which additional hardware is essential at the new location to support four TS1140 drives?

- A. 3953-F05 with 3592-007
- B. 3952-F05 with 3592-007
- C. 3953-F05 with L05 Library Manager
- D. 3584-D23 with one Fibre Channel switch

Answer: B

QUESTION: 13

Which of the following functions is a competitive advantage of IBM enterprise tape over other vendor tape technologies?

- A. Built-in data compression
- B. Self-encrypting tape drives
- C. Capacity scaling capability for cartridges
- D. Backwards compatibility with previous generation tapes

Answer: C

QUESTION: 14

A customer proposes to install a TS7740 to replace a competitor's mainframe library. The customer already uses a TS3500 with only LTO-2 drives installed, and it is proposed to use this library for the TS7740 attached drives. Which of the following must be installed as part of the TS3500 subsystem to accommodate the TS7740?

- A. A 3592 capable I/O station
- B. A 3953 frame with Library Manager
- C. A feature to add the required path failover function
- D. A new D53 frame with switches and drives for the TS7700

Answer: A

QUESTION: 15

Which statement best describes Recovery Point Objective?

- A. The maximum tolerable time it takes to restore service to all users between outage and 100% of the users back online.
- B. How much data (typically measured in minutes, or seconds) the business can afford to recreate (or lose) after a disaster.
- C. The maximum tolerable time to re-establish and/or restart the network between outage and the network being available again.
- D. The maximum time the business can tolerate the IT systems and critical applications being unavailable, between outage and the system being available again.

Answer: B

QUESTION: 16

A customer has the requirement to store large amounts of archive data on native tape which will be accessed rarely, as well as a smaller amount of data where fast access is important. Which IBM Enterprise Tape function provides the flexibility to meet both requirements?

- A. Speed Matching
- B. Capacity Scaling
- C. SkipSync / Virtual Backhitch
- D. Media Re-Use over multiple Generations

Answer: B

QUESTION: 17

A customer wants to encrypt data written to tape drives. A competitor offers an encryption solution that encrypts the data before sending to the tape drives for compression. IBM wants to offer IBM TS1140 tape drives using the built-in encryption feature. Which competitive advantage does the IBM solution provide?

- A. The TS1140 offers the most secure encryption method available on the market
- B. The TS1140 encrypts and compresses data at the same time for best throughput
- C. The TS1140 encrypts data before compressing in order to obtain best performance
- D. The TS1140 compresses data before encrypting in order to obtain the best compression ratio

Answer: D

QUESTION: 18

On a TS3500 Tape Library, how many cartridge cells are available in a D23 frame with twelve TS1140 drives installed?

- A. 58
- B. 117
- C. 248
- D. 360

Answer: D

QUESTION: 19

A banking customer's TS7740 was unable to replicate the tape backup data to the DR data center via the current grid network. The IBM support engineer had created a PMR with Severity 1 because the tape library is supporting the customer's production environment. Six hours after the PMR was created, IBM Level 2 support requested to change the Severity Level to 2, even though the problem had not been resolved. Based on IBM guidelines, why would this problem need to be reduced to Severity 2?

- A. Severity 1 only applies to Tape Failure
- B. Severity 1 only applies to Network Failure
- C. Severity 1 only applies to Production Failure
- D. Severity 1 problem must be resolved within 6 hours

Answer: C

QUESTION: 20

To install an IBM 3592-007 with attached drives housed in a TS3500 Tape Library, which of the following is required?

- A. TS3500 frame with mountings to install the 3592-007 and its switches
- B. Customer-supplied standard rack using switches in one of the TS3500 frames
- C. IBM 3953 frame with switches installed either in 3953 frame or one of the TS3500 frames
- D. IBM 3952 frame with switches installed either in 3952 frame or one of the TS3500 frames

Answer: D

QUESTION: 21

A customer has a TS3500 Tape Library with TS1140 Tape Drives, but does not have the High Availability' feature. If the accessory fails, which activity must be performed to resume operations?

- A. Contact IBM support
- B. Re-initialize the Library Manager
- C. Cycle between Pause and Auto mode
- D. Perform a re-inventory of the cartridges in the library

Answer: A

QUESTION: 22

In a single TS3500 library' with no other TS7700 or open systems drives, what is the minimum number of Model 007 controllers required to install the maximum number of drives supported in the TS3500 library?

- A. 8 controllers with 96 drives attached
- B. 8 controllers with 128 drives attached
- C. 12 controllers with 192 drives attached
- D. 16 controllers with 192 drives attached

Answer: C

QUESTION: 23

The customer operations personnel complains that the list of volumes for off-site vaulting includes logical volumes resident in the TS7740 subsystem. What is the likely cause of this issue?

- A. OAM has not been started
- B. The HOD definitions are not correct for the TS7700
- C. The TS7700 Management Class policies are defined incorrectly for the volumes
- D. The tape management system vaulting rules have not been properly reflected in the DFSMS ACS routines

Answer: D

QUESTION: 24

What is the key advantage of the IBM TS7720 over the EMO DLm?

- A. Larger maximum capacity
- B. Virtual drive scalability up to 256
- C. Supports bi-directional replication in a grid
- D. Deduplication which does not use hashing algorithms

Answer: C

QUESTION: 25

As viewed from the front of the library, which frame can be configured as a service bay on the right side of the TS3500 High Availability Tape Library?

- A. 3584-S24 frame
- B. 3584-Lx3 frame
- C. 3584-SC1 frame
- D. 3584-HA 1 frame

Answer: A

QUESTION: 26

Which activity is a customer responsibility during setup of a TS7700 Virtualization Engine?

- A. Initializing logical volumes
- B. Defining Fast Ready categories
- C. Formatting the tape volume cache
- D. Entering the library sequence number

Answer: B

QUESTION: 27

In a TS7740 two-way grid Cluster 0 is the production site and Cluster I is the remote DR site. The scratch volume category for the production site is 0012 and DR site's scratch volume category is 0022. Before a DR test is started, several DR system updates must be in place to protect the production scratch volumes from being allocated during the test. Assuming Selective Write Protect is enabled, which of the following is one step that must be taken?

- A. Update the DR TCDB volume entries to change the production volumes from 0012 to 0022
- B. Update the DR system's DEVSUPxx parmlib member to use a unique scratch volume category
- C. Disconnect the grid link connections to ensure production volumes are not updated in the remote cluster during the DR test
- D. Run the Return To Scratch process from the DR system to ensure the production and DR system volumes are in sync and protected during a DR test

Answer: B

QUESTION: 28

A customer is in the process of installing a two node TS7740 grid with a single production site. The second site used for DR is 50 km away. They want to set all logical volumes to have a size of 6 GB. What is a possible effect on the customer's tape workload?

- A. It may increase the recall time for logical volumes
- B. It may increase the amount of data stored on stacked volumes
- C. It may increase the mount time for fast ready scratch volumes
- D. It may increase the amount of data stored in the tape volume cache

Answer: A

QUESTION: 29

A newly installed TS7720 Virtualization Engine has recently been integrated into a three-way grid. The logical volumes created in the other two systems are not properly being replicated to the new system. All local IBM and customer support resources have been exhausted in trying to determine the cause with no resolution in sight. What should be the next step to try to resolve the issue via IBM?

- A. Contact local PSR to escalate
- B. Contact the local SSR to escalate
- C. Contact the sales representative to escalate
- D. Contact the local software provider to escalate

Answer: C

QUESTION: 30

What indicates that the physical installation of a TS7720 Virtualization Engine is complete and available to the customer?

- A. HOD/IOCP is updated
- B. DF/SMS ACS routines are coded and tested
- C. Code 20-installed is written by the IBM SSR
- D. All items on the implementation plan are completed

Answer: C

QUESTION: 31

Which media formats and cartridge types are supported for writing data with the IBM TS1130 Tape Drive?

- A. JC and EFMT3
- B. JB and EFMT4
- C. JX and EFMT3
- D. JA and EFMT1

Answer: C

QUESTION: 32

Select two key items that are associated with the TS7700 Hardware Installation planning worksheets. (Select two)

- A. Composite Library ID
- B. SMS storage group name
- C. Define VOLSER ranges for logical volumes
- D. SMS Composite and Distributed Library Names
- E. Customer IP addresses for the IP replication and Management Interface

Answer: A, E

QUESTION: 33

What is a key characteristic of a disaster recovery (DR) solution compared to a high availability (HA) solution?

- A. DR always requires human intervention while HA always is automated
- B. DR means doubling all equipment in 2 separate sites while HA means doubling all equipment in a single site
- C. DR only protects from natural disasters (fire, flooding, earthquakes etc) while HA only protects from IT equipment outage
- D. DR protects from outage of a complete site while HA protects from outage of one or several individual elements in the IT infrastructure

Answer: D

QUESTION: 34

Which of the following best describes the TS1140 EastSync function?

- A. Matches the input and output data rates of the main buffer
- B. Uses a non-volatile cache for small transaction sizes (less than 204 MB compressed)
- C. Reads forward to the requested target block rather than performing a higher-speed tape motion
- D. Improves synchronized write performance for larger transactions (greater than 204 MB compressed)

Answer: B

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