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Storage Technology Foundations

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**QUESTION 1**

Consider a disk I/O system in which an I/O request arrives at a rate of 100 IOPS and the service time is 4 ms. What is the utilization?

- A. 40%
- B. 10%
- C. 80%
- D. 4%

Correct Answer: A

QUESTION 2

What is a key advantage of disk striping over a single disk?

- A. Performance
- B. Space utilization
- C. Protection
- D. Availability

Correct Answer: A

QUESTION 3

How does Asynchronous remote replication improve application performance, compared to Synchronous remote replication?

- A. Reads are serviced by the remote replica
- B. Writes are acknowledged immediately by the remote replica
- C. Writes are acknowledged immediately by the source
- D. Reads are serviced by the source

Correct Answer: C

QUESTION 4

Exhibit:

You work as a network administrator at Certpaper.com. You study the exhibit carefully. What is the correct order of



operations for array based synchronous replication?

- A. Write is received by the source array from host/server
- B. Remote array sends acknowledgement to the source array
- C. Source array signals write complete to host/server
- D. Write is transmitted by source array to the remote array



A. A, B, C, D

B. D, C, B, A

C. A, D, B, C

D. C, D, B, A

Correct Answer: C

QUESTION 5

What is the function of FC-1 layer in the Fibre Channel protocol?

- A. Encoding and decoding
- B. Routing and flow control
- C. Transmission of raw bits
- D. Interface mapping

Correct Answer: A

QUESTION 6

Which remote replication solution has the lowest bandwidth requirement?

- A. Log shipping over IP networks
- B. Array based synchronous replication
- C. Asynchronous ordered writes
- D. Host based LVM Mirroring

Correct Answer: A

QUESTION 7

What is a requirement for a client initiated restore?



- A. Backup device must be disk
- B. Backup catalog must be available
- C. Separate storage node must exist
- D. Must be initiated through a CLI

Correct Answer: B

QUESTION 8

Which statement describes logical volumes?

- A. May consist of interleaved physical disks
- B. May be a partition of a larger physical disk
- C. May be presented to a host as several larger physical disks
- D. May consist of several file systems

Correct Answer: B

QUESTION 9

What is prevented using RAID technology?

- A. Data loss
- B. Host Bus Adapter failures
- C. Security breach
- D. Switch failure

Correct Answer: D

QUESTION 10

If site A is 1000 miles (1600 km) away from site B, which method is NOT suitable for remotely replicating data from A to B?

- A. Extended distance consistent PIT
- B. Log shipping
- C. Synchronous
- D. Asynchronous



Correct Answer: C

QUESTION 11

A customer is looking for highly scalable SAN environment. Which SAN connectivity option would you recommend?

- A. Switched Fabric
- B. Partial mesh
- C. Fibre Channel Arbitrated Loop
- D. Full mesh

Correct Answer: A

QUESTION 12

What is an advantage of synchronous remote replication compared to other remote replication methods?

- A. Near zero RPO
- B. Near zero RTO
- C. No distance limitation
- D. Faster response time

Correct Answer: A

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