

Dashboard / Courses / 2020/21/2 / NIK / 2020/21/2 - Virtualised storage systems - NIXVT1CBNE/VT1\_EA\_CSIS / Midterm test  
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**Started on** Monday, 26 April 2021, 4:20 PM

**State** Finished

**Completed on** Monday, 26 April 2021, 4:40 PM

**Time taken** 19 mins 31 secs

**Grade** 13 out of 20 (65%)

## Question 1

Correct

Mark 1 out of 1

What is typical for UFS file systems?

- ☐ a. Data is stored on drives marked with a letter
- ☐ b. Logging is not supported
- ☐ c. Define a root filesystem on both drives
- ☒ d. Represents everything as a file ✓

The correct answer is: Represents everything as a file

## Question 2

Correct

Mark 1 out of 1

What are the main principles of data storage?

- ☐ a. Consistency, availability, partitioning tolerance
- ☐ b. Safety, scalability, integrity
- ☒ c. Safety, validity, integrity ✓
- ☐ d. Consistency, availability, privacy

The correct answer is: Safety, validity, integrity

### Question 3

Correct

Mark 1 out of 1

What system can Logical Disk Manager be used on?

- ☐ a. On Linux based systems
- ☒ b. On Windows-based systems ✓
- ☐ c. Operating system is independent
- ☐ d. On Unix-based systems

The correct answer is: On Windows-based systems

### Question 4

Correct

Mark 1 out of 1

Can LVM be used in a distributed environment?

- ☐ a. Yes, but PVs can only be created on one machine
- ☐ b. Does not support distributed environment
- ☐ c. Yes, but meta information can only be stored on one machine
- ☒ d. Yes, but originally designed for a single machine environment only ✓

The correct answer is: Yes, but originally designed for a single machine environment only

### Question 5

Correct

Mark 1 out of 1

What instruction set is carried by the Fiber Channel protocol?

- ☐ a. Infiniband
- ☐ b. ATA
- ☐ c. Ethernet
- ☒ d. SCSI ✓

The correct answer is: SCSI

## Question 6

Incorrect

Mark 0 out of 1

Which implementation has the lowest latency?

- ☐ a. BUCKET
- ☐ b. NAS
- ☐ c. DAS
- ☒ d. SAN ✖

The correct answer is: DAS

## Question 7

Incorrect

Mark 0 out of 1

Does LVM support fault-tolerant data storage?

- ☐ a. Fault-tolerant data storage cannot be established
- ☒ b. Fault-tolerant data storage can be ensured by storing PEs on multiple disks ✖
- ☐ c. Supports by mirroring LEs to multiple PEs
- ☐ d. Supports by creating multiple identical LVs

The correct answer is: Supports by mirroring LEs to multiple PEs

## Question 8

Correct

Mark 1 out of 1

Which is the most used magnetic tape standard?

- ☒ a. LTO ✔
- ☐ b. IBM
- ☐ c. SAIT
- ☐ d. SDLT

The correct answer is: LTO

## Question 9

Correct

Mark 1 out of 1

What are the benefits of a logged file system?

- ☐ a. Logging can be used to trigger block-level operations
- ☒ b. In the event of a faulty operation, the original state can be restored ✓
- ☐ c. Logging can be used to speed up write operations
- ☐ d. Logging can be used to speed up read operations

The correct answer is: In the event of a faulty operation, the original state can be restored

## Question 10

Correct

Mark 1 out of 1

What level of sharing do SAN protocols provide?

- ☐ a. Data level
- ☐ b. Filesystem level
- ☐ c. Disk level
- ☒ d. Block level ✓

The correct answer is: Block level

## Question 11

Correct

Mark 1 out of 1

What is the speed range of the HDD?

- ☐ a. 4200-6000 RPM
- ☐ b. 6000-20000 RPM
- ☒ c. 4200-15000 RPM ✓
- ☐ d. 1000-3000 RPM

The correct answer is: 4200-15000 RPM

## Question 12

Correct

Mark 1 out of 1

How does the HDD work?

- ☐ a. Optical
- ☐ b. Thermodynamic
- ☒ c. Magnetic ✓
- ☐ d. Electric

The correct answer is: Magnetic

## Question 13

Correct

Mark 1 out of 1

How many bytes in a GPT scheme is an entry?

- ☐ a. 128
- ☒ b. 512 ✓
- ☐ c. 256
- ☐ d. 16

The correct answer is: 512

## Question 14

Incorrect

Mark 0 out of 1

In what environment was the SCSI protocol most prevalent?

- ☐ a. Mobile devices market
- ☒ b. The personal computer market ✗
- ☐ c. Server environment
- ☐ d. In the market for embedded devices

The correct answer is: Server environment

**Question 15**

Correct

Mark 1 out of 1

How many devices can be connected using a PATA cable?

- ☐ a. 1
- ☒ b. 2 ✓
- ☐ c. 8
- ☐ d. 4

The correct answer is: 2

**Question 16**

Incorrect

Mark 0 out of 1

What are the benefits of Just Bunch of Disks (JBOD) technology?

- ☐ a. Provides faster data access
- ☐ b. Provides fault-tolerant design
- ☐ c. Provides one disk from separated disks
- ☒ d. Provides mirrored datastore ✗

The correct answer is: Provides one disk from separated disks

**Question 17**

Incorrect

Mark 0 out of 1

What is the maximum size of a logical volume in the LVM technology?

- ☐ a. Size of total available capacity
- ☐ b. Largest partition size
- ☒ c. The size of the largest physical volume ✗
- ☐ d. The largest drive size in the system

The correct answer is: The largest drive size in the system

## Question 18

Correct

Mark 1 out of 1

From what direction is it possible to write a magnetic tape?

- ☐ a. only helical
- ☒ b. linear and helical ✓
- ☐ c. horizontal
- ☐ d. only linear

The correct answer is: linear and helical

## Question 19

Incorrect

Mark 0 out of 1

Which of the listed storage devices has the largest storage capacity?

- ☒ a. SSDs ✗
- ☐ b. Optical drives
- ☐ c. Tape drives
- ☐ d. Registers

The correct answer is: Tape drives

## Question 20

Incorrect

Mark 0 out of 1

Which interface type does not support by SSDs?

- ☐ a. PCI-e
- ☐ b. M.2
- ☒ c. SAS ✗
- ☐ d. PATA

The correct answer is: PATA

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