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# E20-017

## EMC

*Information Availability Design Specialist Exam for Data Center Architects*

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# DEMO EXAM

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**QUESTION:** 1

The exhibit represents a Component Failure Impact Analysis (CFIA) for a company's IT infrastructure. Several Requests for Change (RFC) were raised.

| CI | OLTP Service | File share | E-mail | Backup/archive |
|---|---|---|---|---|
| Servers/NAS devices | A | X | B | X |
| FC Switches | X | A | X | B |
| Storage arrays | B | X | B | X |

X: CI Failure causes outage
A: CI has an immediate backup ("hot-start")
B: CI has an intermediate backup ("warm-start")

Which RFC should be considered a priority for implementation?

A. Deploying a switch architecture with no single point of failure
B. Clustering the backup server with multiple storage devices
C. Configuring the NAS device in an active-active mode
D. Adding more disk drives to the storage array

**Answer:** A

**QUESTION:** 2

As represented in the exhibit, a company has a system with three critical components.

| System Components | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---|---|---|---|---|---|---|---|
| Component 1 | 24hrs | 3pm-5pm | 7am-Noon | 24hrs | 3pm-9pm | 1am - 4am | 24hrs |
| Component 2 | 7am-9am | 24hrs | 24hrs | 24hrs | 3pm -9pm | 1am - 4am | 24hrs |
| Component 3 | 24hrs | 24hrs | 7am-Noon | 24hrs | 24hrs | 1am - 4am | 9am-2pm |

Key

Failure/Outage

Scheduled Maintenance

Each component must be functioning for the system to be operational. SLAs have been established between the business and IT that define normal hours of operations for service as 8 A.M. - 8 P.M., Monday through Friday. What is the availability (percentage) of Component 1?

A. 78
B. 81.7
C. 89
D. 91.7

**Answer:** B

## QUESTION: 3

A company has a system with three critical components as represented in the exhibit.

| System Components | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---|---|---|---|---|---|---|---|
| Component 1 | 24hrs | 3pm-5pm | 7am-Noon | 24hrs | 3pm-9pm | 1am - 4am | 24hrs |
| Component 2 | 7am-9am | 24hrs | 24hrs | 24hrs | 3pm -9pm | 1am - 4am | 24hrs |
| Component 3 | 24hrs | 24hrs | 7am-Noon | 24hrs | 24hrs | 1am - 4am | 9am-2pm |

Key

| Failure/Outage |
|---|
| Scheduled Maintenance |

Each component must be functioning for the system to be operational. Following an outage, certain components seem to take longer to restore back to service than others. What is the mean time to repair (MTTR) for Component 3?

A. 2 hours
B. 3 hours
C. 5 hours
D. 10 hours

**Answer:** C

## QUESTION: 4

As represented in the exhibit, a company has a system with three critical components. Each component must be functioning for the system to be operational.

| System Components | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---|---|---|---|---|---|---|---|
| Component 1 | 24hrs | 3pm-5pm | 7am-Noon | 24hrs | 3pm-9pm | 1am - 4am | 24hrs |
| Component 2 | 7am-9am | 24hrs | 24hrs | 24hrs | 3pm -9pm | 1am - 4am | 24hrs |
| Component 3 | 24hrs | 24hrs | 7am-Noon | 24hrs | 24hrs | 1am - 4am | 9am-2pm |

Key

| Failure/Outage |
|---|

| Scheduled Maintenance |
|---|

What is the scheduled availability (percentage) for the system?

A. 84
B. 86
C. 88
D. 90

**Answer:** C

**QUESTION:** 5

In which focus area of the Information Availability Design Framework can platform integrity be found?

A. Store
B. Automate
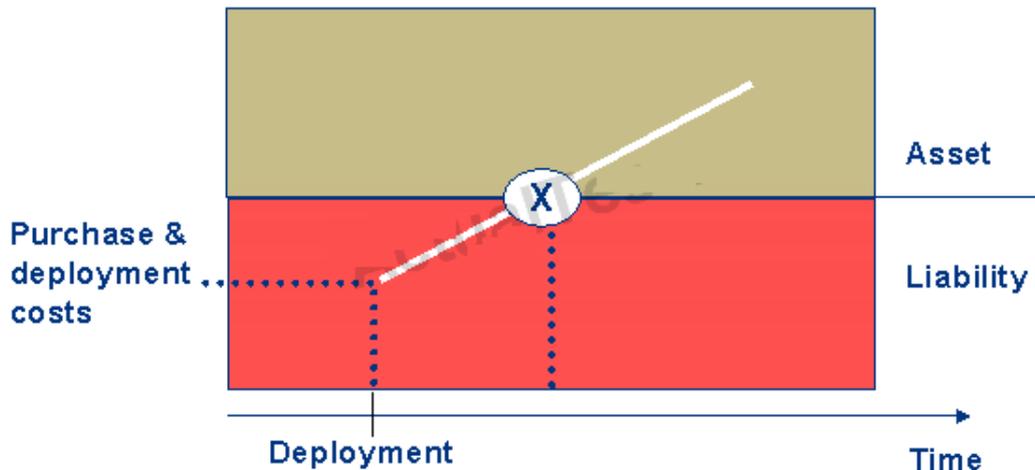C. Create copies
D. Distribute

**Answer:** A

**QUESTION:** 6

In which focus area of the Information Availability Design Framework can seamless movement of data between tiers of storage be found?

A. Automate
B. Create Copies
C. Distribute
D. Store

**Answer:** A

**QUESTION:** 7

The exhibit represents the expected financial results of a storage technology investment.



What does the 'X' represent?

A. Cost of investment equals the gain from the investment
B. Asset exceeds liability
C. Deployment cost crosses the planned deployment time
D. Return on investment

**Answer:** A

**QUESTION:** 8

A company wants to replace its physical tape library with a virtual tape library (VTL). To deploy the VTL, the company spends $300,000 for the hardware costs and $50,000 for the implementation charges. Once the data is migrated from the physical tape library to the VTL, the physical tape library will be decommissioned for a cost of $50,000. The company will gain $70,000 per month due to this VTL implementation. What is the return on investment (ROI) in one year and the break-even point for the company's initial investment?

A. 85%; Month 8
B. 85%; Month 9
C. 110%; Month 6
D. 110%; Month 8

**Answer:** C

**QUESTION:** 9
A company wants to replace its physical tape library with a virtual tape library (VTL). To deploy the VTL, the company spends $300,000 for the hardware costs and $60,000 for the implementation charges. Once the data is migrated from the physical tape library to the VTL, the physical tape library will be decommissioned for a cost of $50,000. The company will gain $60,000 per month due to this VTL implementation. What is the return on investment (ROI) in one year and the break-even point for the company's initial investment?

A. 35%; Month 6
B. 35%; Month 7
C. 76%; Month 6
D. 76%; Month 7

**Answer:** D

**QUESTION:** 10
A company has a shared pre-staged infrastructure at an alternate site. This approach enables the company to rebuild systems and applications in the event of a disaster. What is the term for this strategy?

A. Hot site
B. Manual failover site
C. Cold site
D. Warm site

**Answer:** A

**QUESTION:** 11
In the context of "establishing information availability," what is an operation management activity?

A. Capacity planning
B. Data classification
C. Testing
D. Implementation planning

**Answer:** A

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