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DevOps Engineering Foundation

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Question: 1

DevOps promotes a culture of _____ by encouraging collaboration, shared responsibility, and continuous feedback.

Response:

- A. Bureaucracy
- B. Automation
- C. Ownership
- D. Resistance

Answer: C

Question: 2

Which metric is most commonly used to measure system availability in DevOps?

Response:

- A. Mean Time to Detect (MTTD)
- B. Mean Time Between Failures (MTBF)
- C. Change Failure Rate (CFR)
- D. Deployment Frequency

Answer: B

Question: 3

What is the primary characteristic of ephemeral infrastructure in a DevOps environment?

Response:

- A. Infrastructure components are manually configured for long-term stability.
- B. Resources are provisioned temporarily and destroyed when no longer needed.
- C. It eliminates the need for cloud computing in DevOps.
- D. It ensures that all infrastructure remains unchanged for reliability.

Answer: B

Question: 4

What advantages do ephemeral environments provide for software development and testing?

(Select two)

Response:

- A. Developers can spin up temporary environments for testing without affecting production.
- B. Reduces infrastructure costs by deallocating unused resources.
- C. Guarantees the same hardware for all workloads.
- D. Requires extensive manual setup for every new test environment.

Answer: A,B

Question: 5

What is the primary objective of Site Reliability Engineering (SRE) in DevOps?

Response:

- A. To create separate development and operations teams
- B. To increase system reliability through automation and proactive incident management
- C. To replace software developers with AI-based automation
- D. To ensure all processes are managed manually for greater control

Answer: B

Question: 6

How does shift-left testing improve software quality in DevOps?

Response:

- A. By delaying testing until after deployment
- B. By ensuring security is only tested in production
- C. By detecting defects earlier in the development lifecycle
- D. By eliminating the need for automated testing

Answer: C

Question: 7

How does Continuous Deployment differ from Continuous Delivery?

Response:

- A. Continuous Deployment automates releases to production without manual intervention
- B. Continuous Deployment requires manual approvals before every production release
- C. Continuous Delivery eliminates the need for automated testing
- D. Continuous Deployment only applies to on-premises infrastructure

Answer: A

Question: 8

Why is cultural transformation an essential part of DevOps adoption?

Response:

- A. Because DevOps focuses only on automation tools
- B. Because collaboration and shared responsibility improve efficiency
- C. Because DevOps eliminates the need for development teams
- D. Because compliance regulations require cultural changes

Answer: B

Question: 9

Which are common DevOps monitoring tools?

(Select two)

Response:

- A. Grafana
- B. Nagios
- C. Excel
- D. Microsoft Word

Answer: A,B

Question: 10

In a Blue-Green deployment strategy, the _____ environment serves live traffic while the new release is tested in the other environment.

Response:

- A. Active
- B. Passive

- C. Staging
- D. Development

Answer: A

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