**DevOps Quiz - Multiple Choice Questions (MCQ)**

**1. What does 'DevOps' stand for?**

a) Development Operations x

b) Device Operations

c) Deviant Operations

d) Developer's Operations

**2. Which tool is commonly used for Continuous Integration and Continuous Deployment (CI/CD)?**

a) Jenkins X

b) Docker

c) Git

d) Ansible

**3. What does CI in CI/CD stand for?**

a) Continuous Input

b) Continuous Integration X

c) Continuous Improvement

d) Continuous Installation

**4. Which of the following is NOT a configuration management tool?**

a) Chef X

b) Puppet

c) Ansible

d) Jira

**5. What is Docker primarily used for?**

a) Version Control

b) Continuous Integration

c) Containerization X

d) Project Management

**6. What's the primary purpose of Kubernetes?**

a) Source code management

b) Automated testing

c) Container orchestration X

d) Configuration management

**7. Which tool is mainly used for version control in DevOps?**

a) Jenkins

b) Docker

c) Kubernetes

d) Git X

**8. What does IaC stand for in DevOps?**

a) Infrastructure as Computer

b) Integration and Configuration

c) Infrastructure as Code X

d) Input and Compute

**9. Which of the following is a benefit of implementing DevOps?**

a) Slower release cycles

b) Less collaboration between teams

c) Reduced recovery time after failures X

d) Increased infrastructure cost

**10. In DevOps, what does "shift left" refer to? (tester à l’avance)**

a) Delaying testing to the end of the development cycle X

b) Incorporating operations earlier in the development cycle

c) Left-aligning code

d) Outsourcing operations

**11. Which of the following represents a cultural aspect of DevOps?**

a) Using Docker

b) Automation scripts

c) Collaboration and sharing between teams X

d) Writing Infrastructure as Code

**12. What is Infrastructure as Code (IaC)?**

a) Writing scripts (code) to automate infrastructure deployment X

b) Using code repositories to store infrastructure information x

c) Documenting infrastructure requirements

d) Writing application code that supports multiple infrastructure setups

**13. In which phase are automated tests primarily run in a CI/CD pipeline?**

a) Build

b) Test X

c) Deploy

d) Monitor

**14. What does the acronym "CALMS" stand for in the context of DevOps?**

a) Code, Automation, Logs, Monitoring, Security

b) Culture, Automation, Lean, Measurement, Sharing X

c) Continuous Application Lifecycle Management System

d) Code, Automation, Lifecycle, Monitoring, Systems

**15. Which tool is used for configuration management?**

a) Git

b) Nagios

c) Ansible

d) Jira

**16. Which practice involves deploying code into a production-like environment before actual production?**

a) Continuous Testing

b) Canary Release

c) Blue-Green Deployment x

d) Continuous Deployment x

**17. What is a Version Control System (VCS) primarily used for?**

a) Infrastructure monitoring

b) Configuration management

c) Tracking changes to source code X

d) Application deployment

**18. Which tool is often used for orchestrating cloud infrastructure as code?**

a) Jenkins

b) Grafana

c) Terraform X

d) Docker

**19. Which term describes a method where developers merge their changes back to the main branch multiple times a day?**

a) Continuous Deployment

b) Continuous Integration X

c) Continuous Monitoring

d) Continuous Feedback

**20. Which of the following tools is primarily associated with monitoring and visualizing time-series data?**

a) Ansible

b) Git X

c) Grafana (plateforme opensource)

d) Puppet

**21. What does the term "Immutable Infrastructure" refer to?**

a) Infrastructure that can be easily changed and adapted

b) Infrastructure components that are never updated once deployed X

c) Frequently changing infrastructure

d) Infrastructure that is resistant to hacker attacks

**22. Which DevOps practice involves automating the provisioning and management of servers?**

a) Continuous Monitoring X

b) Continuous Feedback

c) Configuration Management

d) Continuous Testing

**23. Which DevOps tool is known for its "Infrastructure as Code" capabilities and agentless architecture?**

a) Jenkins

b) Git

c) Puppet

d) Ansible