

## **DevOPS - Important Questions from Previous Papers**

1. What is release management in DevOps?
2. What are Scrum and Kanban in DevOps?
3. What is the monolithic scenario in software architecture?
4. What is the separation of concerns in architecture?
5. What is Gerrit?
6. What is the pull request model?
7. What are build slaves in Jenkins?
8. What is job chaining in Jenkins?
9. What is Test-Driven Development (TDD)?
10. What is the purpose of a Puppet master in deployment systems?
11. What is continuous integration?
12. What is the relationship between ITIL and DevOps?
13. How does DevOps influence business agility?
14. Which architecture style is often associated with DevOps?
15. What is shared authentication in DevOps?
16. What is pull request model in DevOps?
17. What is managing build dependencies in DevOps?
18. Explain collating quality measures?
19. What is the purpose of Test-Driven Development (TDD) in DevOps?
20. What are the benefits of using Puppet Master in DevOps?

## **Essay Questions**

- 1) Explain the concept of Release Management in the context of Agile and DevOps practices.
- 2) Explain DevOps and ITIL, their guiding concepts, and how they enhance operational effectiveness and IT service management.
- 3) Explain the importance of Continuous Testing in the DevOps lifecycle.
- 4) Explain the "Rules of Thumb" in Software Architecture and their relevance in a DevOps environment.
- 5) Explain hosted Git servers like GitHub, GitLab, and Bitbucket.
- 6) Explain how the pull request workflow facilitates code review and collaboration.
- 7) Analyze the role of Jenkins as a build server in continuous integration and delivery (CI/CD).
- 8) Explain the architecture of a Jenkins setup, including the roles of the host server and build slaves.
- 9) Explain Selenium as a testing tool and its key features.
- 10) Explain Selenium and its constituent parts, such as the IDE, Grid, and WebDriver.
- 11) Explain the concept of Continuous Delivery and its role in the DevOps process.
- 12) Compare and contrast the Scrum and Kanban methodologies in the context of DevOps.
- 13) What are the key stages or phases in a typical DevOps lifecycle?
- 14) How can DevOps principles be applied to handle database migrations effectively?
- 15) What is Gerrit and explain the architecture of Gerrit?
- 16) What is Docker intermission and what are the differences between Docker and machine?
- 17) Explain Jenkins master-slave architecture and Jenkins applications?
- 18) What are different build phases in DevOps?
- 19) What are backend integration points and explain backend testing validation?
- 20) What is Puppet? Explain the role of Puppet master and agents in deployment systems.