1.What is Agile software development? How it is different from traditional software development lifecycle? Discuss its advantages and advantages.

2.Differentiate between Agile and SDLC?

3. What is software engineering? Explain Waterfall model with example.

4. What is Version Control? Discuss different types of Version Control Systems. Enlist the features of VCS.

5. What is GIT? Discuss different GIT workflow types and their features.

6. What is Jenkins? Why it is used? List the steps to install, start and access Jenkins.

7. What is Continuous Testing? Explain how it is different from traditional software testing? List some of the tools for Continuous Testing.

8. Explain how Selenium can be used in Continuous Testing? Write steps to create test cases in Selenium.

9. What is Continuous Deployment? What are its advantages? How puppet helps in Continuous Deployment process? Discuss.

10. What are containers? Explain Docker Architecture with diagram. List various components of Docker

11. Explain docker run command to use Ubuntu container. List the steps executed when the command is run. What happens when the image is deleted or removed?

12. What is CI/CD? Explain with suitable example.

13. Differentiate between Ansible and Puppet with respect to CI/CD pipeline.

14. What is Containerization? Explain its advantages and various tools used for containerization.

15. What is Kubernetes? Explain Containerization using Kubernetes.

16. Write steps to Integrate Docker and Kubernetes

17. What is continuous monitoring? Discuss some of the continuous monitoring tools.

18 Discuss the concept of DevOps. How DevOps is different from Agile? Discuss.

19. Discuss the master-slave architecture of puppet.

20. Write short notes on the following:

Autoscaling

Container

Configuration Management

Branching and Merging in GIT