Introduction to DevOps
UNIT-5 QB

1. What is DevSecOps? How is it important in improving the DevOps practice?

2. What is Chef InSpec? Give an overview of Chef InSpec.

3. What is Secure DevOps kit (AzSK)? Discuss.

4. Explain the working of AzSK with a neat diagram.

5. What is the need for protecting the sensitive data between different components? List and explain the different tools used for securing sensitive data.

6. List and explain the main features and benefits of Vault.

7. Discuss the different methods of installing the vault locally.

8. Illustrate how to protect sensitive data by writing secrets in the Vault.

9. With necessary commands discuss how to read the secrets in Vault.

10. With the help of a necessary code explain how to reduce the deployment downtime with Terraform.

11. Illustrate the blue-green deployment concepts and patterns with the help of a neat diagram. How it helps in improving the production environment.

12. Discuss the canary release pattern with the neat diagram.

13. What is dark launch pattern? How is it different from canary release pattern? Discuss.

14. What are feature flags? Discuss the different technical solutions used in implementing feature flags in an application.

15. Writing all your configuration in code is one of the best practices in DevOps. Justify the statement.

16. Outline the good practices to consider when designing software architecture and designing infrastructure.

17. Outline the best practices for building a good CI/CD pipeline.

18. Describe the following
    i.   Test-Driven Development
    ii.   Behavior-Driven Development

19. Explain the steps taken to improve security in DevOps processes.

20. Discuss the good practices that can facilitate the implementation of DevOps culture in project management within companies.