

**UNIT-1**

1. A) Explain the terms Flow, Feedback & Continual learning & Experimentation [7 Marks;CO1;Analyze]
B) Explain where SDLC are used in real time Application? [7 Marks;CO1, Evaluate]
(OR)
2. Develop an application for Agile Model with explanation? [14 Marks;CO1, Create]

UNIT-2

3. A) Explain the term "Infrastructure as Code" (IaC) as it relates to configuration management How is IaC implemented using AWS? [7 Marks;CO2;Analyze]
B) Explain DevOps eco system tools in various applications [7 Marks;CO2;Analyze]
(OR)
4. A) Explain technical practices and architecture required to enable and sustain the fast flow of work from Development into Operations. [7 Marks;CO2;Analyze]
B) What are the different phases in DevOps explain with neat diagram? [7 Marks;CO2;Analyze]

UNIT-3

5. A) How will you approach a project that needs to implement DevOps? [7 Marks;CO3;Understand]
B) What are the fundamental differences between DevOps & Agile? [7 Marks;CO3;Understand]
(OR)
6. A) Describe the Automated Test phase of Delivery pipeline in detail. [7 Marks;CO3;Understand]
B) Explain different type of Automated Testing in detail. Analyze the difference between TDD and BDD [7 Marks;CO3; Analyze]

UNIT-4

7. A) What is the difference between continuous delivery and continuous deployment? [7 Marks;CO4;Understand]
B) Explain CICD Pipeline. Explain the significance of CD in brief. [7 Marks;CO4;Apply]
(OR)
8. A) Describe the Principles of continuous delivery. Explain some of them in detail. [7 Marks;CO4;Understand]
B) Define Continuous Integration in detail. Enlist Best Practices of Continuous Integration [7 Marks;CO4;Understand]

UNIT-5

9. A) How do you assess DevOps maturity? What are the key factors of DevOps maturity model? [7 Marks;CO5;Understand]
B) What is DevSecOps maturity model? What are the 4 components of DevSecOps? [7 Marks;CO5;Understand]
(OR)
10. A) What are the Key factors of DevOps maturity model explain in details [7 Marks;CO5;Apply]
B) What are the problems that you experience with your infrastructure, deployment model, automation? [7 Marks;CO5;Understand]