Register No.:

1906

October 2026

Time – Two hours
(Maximum Marks: 60)

N.B.
1. Answer all questions under Part-A. Each question carries 1 mark.
2. Answer any 5 questions under Part-B. Each question carries 2 marks.
3. Answer any 3 questions under Part-C. Each question carries 10 marks.

PART – A

1. DevOps mainly focuses on
   a) Hardware maintenance
   b) Collaboration between development and operations
   c) Database normalization
   d) Network routing

2. Which SDLC model follows a sequential approach?
   a) Agile Model
   b) Spiral Model
   c) Waterfall Model
   d) DevOps Model

3. One major objective of DevOps is
   a) Delayed software delivery
   b) Continuous integration and deployment
   c) Reducing communication
   d) Increasing manual testing

4. Agile model mainly supports
   a) Iterative and incremental development
   b) Fixed requirements only
   c) Hardware implementation
   d) Linear execution only

5. Maven is mainly used for
   a) Network security
   b) Project build and dependency management
   c) Image editing
   d) Database administration

6. The configuration file used in Maven is
   a) build.xml
   b) pom.xml
   c) config.ini
   d) package.json

7. Maven repositories are mainly used to store
   a) User passwords
   b) Source code only
   c) Project dependencies and artifacts
   d) Network logs

8. Which Maven component extends build functionality?
   a) Plugin
   b) Servlet
   c) Kernel
   d) Package

9. Jenkins is mainly used for
   a) Version control
   b) Continuous Integration
   c) Database design
   d) Network monitoring

10. Continuous Integration helps developers to
   a) Delay testing
   b) Frequently integrate code changes
   c) Avoid automation
   d) Reduce collaboration

11. Jenkins workspace is used to
   a) Store network configuration
   b) Maintain build-related files
   c) Create databases
   d) Configure hardware

12. Jenkins can be integrated with
   a) Git and Maven
   b) MS Word only
   c) FTP server only
   d) Printer drivers

13. Git is mainly used for
   a) Database management
   b) Version control
   c) Hardware simulation
   d) Cloud hosting only

14. The Git command used to upload local changes to a remote repository is
    a) git clone
    b) git push
    c) git fetch
    d) git checkout

15. Git stash is used to
    a) Delete repositories
    b) Temporarily save uncommitted changes
    c) Merge branches permanently
    d) Create plugins

16. Git merge is mainly used to
    a) Delete branches
    b) Combine changes from different branches
    c) Reset repositories
    d) Install dependencies

17. Ansible is mainly used for
    a) Configuration management and automation
    b) Database optimization
    c) Image rendering
    d) Compiler design

18. YAML in Ansible is used to
    a) Create databases
    b) Write playbooks in readable format
    c) Encrypt passwords
    d) Configure networks only

19. Ansible inventory file contains
    a) Java classes
    b) Managed host information
    c) Git repositories
    d) Database schemas

20. Ansible roles help in
    a) Organizing automation tasks
    b) Deleting servers
    c) Managing network cables
    d) Compiling Java programs

PART – B

21. Define DevOps.
22. What is Maven POM file?
23. What is an agile model?
24. Write a short note on Jenkins.
25. Write any two features of GIT.
26. Differentiate Git Fetch and Git Pull.
27. What is an Ansible Playbook?
28. Define YAML in Ansible.

PART – C

29. Explain the objectives and benefits of DevOps.
30. Discuss about the Maven Build Lifecycle.
31. Explain the Continuous Integration using Jenkins.
32. Describe about the Git Branching and Merging process.
33. Explain the installation and master/slave configuration of ansible.
