

**ANURAG Engineering College**  
(An Autonomous Institution)  
**III B.Tech I Semester Regular Examinations, December – 2024**  
**DEVOPS**  
**(COMPUTER SCIENCE AND ENGINEERING)**

Time: 3 Hours

Max. Marks: 60

**Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. What is release management in DevOps?	CO1	L1	1M
2. What are Scrum and Kanban in DevOps?	CO1	L1	1M
3. What is the monolithic scenario in software architecture?	CO2	L1	1M
4. What is the separation of concerns in architecture?	CO2	L1	1M
5. What is Gerrit?	CO3	L1	1M
6. What is the pull request model?	CO3	L1	1M
7. What are build slaves in Jenkins?	CO4	L1	1M
8. What is job chaining in Jenkins?	CO4	L1	1M
9. What is Test-Driven Development (TDD)?	CO5	L1	1M
10. What is the purpose of a Puppet master in deployment systems?	CO5	L1	1M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain the concept of Release Management in the context of Agile and DevOps practices.	CO1	L2	10M
<b>OR</b>			
B) Explain DevOps and ITIL, their guiding concepts, and how they enhance operational effectiveness and IT service management.	CO1	L2	10M
12. A) Explain the importance of Continuous Testing in the DevOps lifecycle.	CO2	L2	10M
<b>OR</b>			
B) Explain the “Rules of Thumb” in Software Architecture and their relevance in a DevOps environment.	CO2	L2	10M
13. A) Explain hosted Git servers like GitHub, GitLab, and Bitbucket.	CO3	L2	10M
<b>OR</b>			
B) Explain how the pull request workflow facilitates code review and collaboration.	CO3	L2	10M
14. A) Analyze the role of Jenkins as a build server in continuous integration and delivery (CI/CD).	CO4	L3	10M
<b>OR</b>			
B) Explain the architecture of a Jenkins setup, including the roles of the host server and build slaves.	CO4	L2	10M
15. A) Explain Selenium as a testing tool and its key features.	CO5	L2	10M
<b>OR</b>			
B) Explain Selenium and its constituent parts, such as the IDE, Grid, and WebDriver.	CO5	L2	10M

