


Name:			
Enrolment No:			
<b>UPES</b> <b>End Semester Examination, December 2023</b>			
<b>Course: Software Version Control</b> <b>Program: BTech CSE-All Programs</b> <b>Course Code: CSEG4013P</b> <b>Instructions: All questions are necessary.</b>		<b>Semester: VII</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Describe the purpose of Git hooks in a local repository and provide an example scenario where a hook might be useful.	4	CO2
Q 2	Differentiate between SVN and Git.	4	CO3,CO 4
Q 3	Explain disadvantages of distributed version control system.	4	CO4
Q 4	In Git, what is the significance of the "master" branch, and how has its role evolved?	4	CO2
Q 5	Describe the concept of staging in git with the help of an example.	4	CO3
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Explain different stages of central version control system with suitable example and illustration.	10	CO4
Q 7	Describe basics of SVN with its repositories and libraries.	10	CO3
Q 8	Explain in detail the challenges faced in implementing a robust Continuous development (CD) pipeline in a large-scale enterprise environment.	10	CO1,CO 4
Q 9	<p>You are working on a project with a team of developers. Explain how CI would help in this collaborative environment, and describe the steps involved in setting up a basic CI pipeline.</p> <p style="text-align: center;">OR</p> <p>You are tasked with implementing Continuous Deployment for a web application. Describe the key components of a CD pipeline and how you would ensure that changes are automatically deployed to production.</p>	5+5	CO1
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Describe the core principles of Agile and Scrum methodologies. Discuss a real-world scenario where Agile and Scrum practices were	10+10	CO1,CO 2

	implemented successfully, highlighting the key challenges faced and the strategies used to address them.		
<b>Q 11</b>	<p>In a team project, multiple developers are working on different features. How does cloning contribute to the isolation of their changes? Explain the disadvantages of cloning.</p> <p style="text-align: center;">OR</p> <p>Can you clone a specific commit in Git, and if so, what command would you use with the help of an example? Explain the difference between cloning a repository and forking a repository.</p>	<b>20</b>	<b>CO2,CO 3</b>