Name: Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2023

Course: Build and Release Management   Semester: IV
Program: B.Tech CS + DevOps   Time   : 03 hrs.
Course Code: CSDV 2002   Max. Marks: 100

Instructions:

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q1.	Explain Build. Differentiate between Build and Release with a suitable example of each.	4	CO1
Q2.	Explain STAGE and PROD environment in DevOps Culture.	4	CO1
Q3.	Define the purpose of static code analysis in quality check of the sources code.	4	CO3
Q4.	Differentiate between Prepare and Perform goal in Maven Build process.	4	CO2
Q5.	Write any one Fact and one Myth for DevOps and explain them with specific technical points.	4	CO3

SECTION B
(4Qx10M= 40 Marks)

Q6.	Explain Software Testing with a suitable example and explain white box testing in detail.	10	CO1
Q7.	Write a short note on following. a) Source Code Management b) Git and GitHub	10	CO1
Q8.	Define Release Cycle in detail. Explain its various phases with suitable example of each phase.	10	CO3
Q9.	Documentation is considered a very essential deliverable of a software project. Why? Explain Process Documentation in detail.	10	CO3

	OR Differentiate between Dependency and Repository. Explain Central and Remote repository in detail.		
	SECTION-C **(2Qx20M=40 Marks)**		
Q10.	Explain the significance of Maven Site in documentation of a Maven build. Explain Maven Site life Cycle in detail. Write down the POM.xml tags used for Site plugin.	**20**	**CO4**

Q11.	Define Build Life Cycle in Detail. Discuss various phases of Build (Default) Life cycle of a Maven Project. Relate different Goals in corresponding phases of Build Life Cycle.
	
	OR
	
	Write a short note on following
	    a) Code Coverage Criteria
	    b) Code Coverage Tools
	    c) Code Coverage Report
		20	**CO2**