

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2022

Course: Build and Release Management
Program: B.Tech CS+DevOps
Course Code: CSDV 2002

Semester: IV
Time : 03 hrs.
Max. Marks: 100

Instructions:

SECTION A
(5Qx4M=20Marks)

S. No.	Question	Marks	CO
Q1.	Explain following two processes of Build Management a) Build Identification b) Build Execution	4	CO1
Q2.	What are the different types of Environments in Build and Release Management? Explain UAT and STAGING Environments?	4	CO1
Q3.	What is the Significance of Apache Maven Tool? Write any four Build commands used in Maven with specifications.	4	CO3
Q4.	Explain Release Planning and Release Authorization activities of Release Management Process.	4	CO2
Q5.	Explain advantages and disadvantages of using a Code Coverage Tool.	4	CO3

SECTION B
(4Qx10M= 40 Marks)

Q6.	Explain following Maven Goals in detail. a) Clean Goal b) Perform Goal	10	CO1
Q7.	Write short note on following a) JUnit Annotations b) Black Box Testing	10	CO1
Q8.	It is considered that 100% testing is not possible for a software. Why? Explain white box testing approach for unit Testing.	10	CO3
Q9.	Documentation is considered a very essential deliverable of a software project. Why?	10	CO3

	<p>Explain Product Documentation in details.</p> <p style="text-align: center;">OR</p> <p>What do you mean by Transitive Dependencies? Explain various features of Transitive Dependencies.</p>		
<p>SECTION-C (2Qx20M=40 Marks)</p>			
Q10.	<p>What do you mean by Code Coverage? Explain various Code Coverage Criteria in Details. Compare any two code coverage tools.</p>	20	CO4
Q11.	<p>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.</p> <p style="text-align: center;">OR</p> <p>What is the Significance of Source Code Repository? Differentiate between CVS and SVN. Explain following source code repositories with their comparison.</p> <p style="margin-left: 20px;">a) Github b) BitBucket</p>	20	CO2