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

Program: B.Tech CSE DevOps | Semester: VIII
Course: Applied DevOps | Time 03 hrs.
Course Code: CSDV-4003 | Max. Marks: 100

Instructions: Attempt all sections

SECTION A

Attempt all questions. Each question carries 5 marks [20 marks]

S. No.		Marks	CO
Q1.	Explain the term "DevOps".	4	CO1
Q2.	List the set of practices included in DevOps.	4	CO1
Q3.	With the help of a diagram show the terraform workflow.	4	CO2
Q4.	Differentiate between monolithic and micro-services application.	4	CO2,CO3
Q5.	Explain the term Log Monitoring.	4	CO3

SECTION B

Attempt all questions. Each question carries 10 marks [40 marks]

Q6.	Elaborate on the Agile Planning Onion.	10	CO1,CO3
Q7.	Discuss the various levels at which the end-to-end testing of a software should be done.	10	CO2,CO4
Q8.	Explain the backbone of SDLC in Agile using diagrams.	10	CO4
Q9.	Compare and contrast between push based and pull based strategies in DevOps	10	CO5

SECTION-C

Attempt all questions. Each question carries 20 marks [40 marks]

Q10.	Comment on "Enterprise DevOps Transformation in PayPal" **OR** Comment on " Enterprise DevOps Transformation in Starbucks"	20	CO1,CO5
Q.11	**BOTH PARTS ARE MANDATORY for THIS QUESTION** A)Explain the factors that have the biggest impact on the success of your adoption of the DevOps culture? B) "DevOps has evolved from a way to remove bottlenecks to a reliable accelerated	(10+10)	CO2,CO4

	deployment strategy". In this context explain various pitfalls to be watched Before you start the transition towards DevOps		