UPES
UNIVERSITY OF TOMORROW

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

Course: DevOps
Program: B.Tech CCVT
Course Code: CSDV3006

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

Instructions:

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Explain why DevOps is needed in present day world	4	CO1
Q 2	Explain how DevOps business drivers can mitigate challenges	4	CO2
Q 3	State at least 4 differences between automation and manual testing.	4	CO2
Q 4	Explain advantages of using Jenkins.	4	CO3
Q 5	Explain SCRUM artifacts.	4	CO4

SECTION B
(4Qx10M= 40 Marks)

Q 6	Explain continuous testing using selenium and testNG process along with pictorial diagram	10	CO1
Q 7	Explain business benefits of DevOps along with pictorial diagram.	10	CO2
Q 8	Explains Dockers fitment in DevOps with suitable continuous delivery model to justify.	10	CO3
Q 9	Explain each stage of the DevOps life cycle with pictorial diagram. **OR** Explain the differences for product development using continuous integration and without using continuous integration.	10	CO4

SECTION-C
(2Qx20M=40 Marks)

Q 10	Explain Continuous Integration Vs Continuous delivery Vs Continuous Deployment along with pictorial diagram.	20	CO3
Q 11	a) i) Define and explain DevOps adoption paths. ii) Explain DevOps practices along with pictorial diagram	20	CO4

	OR b) i) Analyze DevOps adoption model and explain each of those in detail along with pictorial diagram. ii) Explain SCRUM process framework.			