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Enrolment No:



UPES

End Semester Examination, May 2025

Course: System Provisioning and Configuration Management

Program: B. Tech. CSE + DevOps

Course Code: CSDV 3012

Semester: VI

Time : 03 hrs. Max. Marks: 100

Instructions:

SECTION A (5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Explain System Provisioning and System Configuration with a suitable example.	4	CO1
Q 2	Enlist and classify the tools commonly used for Configuration Management.	4	CO3
Q 3	Explain the benefits of cloud computing by analyzing its advantages and impact on modern IT infrastructure.	4	CO1
Q 4	Examine the role of AWS (Amazon Web Services) in DevOps by evaluating its impact on continuous integration and delivery practices	4	CO2
Q 5	Describe the purpose and functionality of Playbooks and Ansible modules.	4	CO3
	SECTION B (4Qx10M= 40 Marks)		
Q 6	Describe the various phases of DevOps by categorizing and analyzing each stage role in the software development lifecycle.	10	CO1
Q 7	Explain the concept of "Infrastructure as Code" (IaC) by analyzing its meaning and significance within the context of DevOps methodology.	10	CO1
Q 8	Define Microservices and explain the working of Microservices with suitable example with respect to DevOps.	10	CO2

Q 9	Explain the stages involved in the lifecycle of "Provisioning on the Cloud" by analyzing each phase significance in IT operations. OR Discuss the various types of deployment models used in IT operations.	10	СО3
	SECTION-C (2Qx20M=40		
	Marks)		
Q 10	Describe the step-by-step process of implementing Continuous Integration (CI) in software development projects, also analyze the benefits.	20	CO2
Q 11	Define Monitoring and evaluate the impact of monitoring tools in IT operations. OR Discuss the ansible architecture that enables the automation and configuration management in IT environment,	20	СО3