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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Dec 2021

Course: System Provisioning and Configuration Management   **Semester** : VII
Program : B.Tech. CS + DevOps   **Time** : 03 Hour
Course Code : CSDV 4001   **Max. Marks: 100**

Instructions:
1. All questions are compulsory.
2. The question paper consists of 30 questions divided into three sections Section A,B and C.
3. Section A contains 5 questions of 4 marks each. Section B contains 4 questions of 10 marks each. Section C contains 2 questions of 20 marks each.

SECTION A

1. Each Question will carry 4 Marks
2. Instruction: Complete the statement 100-200 words.

S. No.		Marks	CO
Q1	Illustrate any five Majorly used tools for system provisioning and configuration management.	04	CO2
Q2	Discuss any five Major advantages of IaC.	04	CO3
Q3	Justify the benefits of Cloud Computing in current technical scenario.	04	CO3
Q4	"Cloud Automation is beneficial for coding ".Mention any five reasons.	04	CO2
Q5	Illustrate the exclusiveness of System Provisioning.	04	CO1

SECTION B

1. Each question will carry 10 marks
2. Instruction: Write short / brief notes(200-300 words)

Q7	Demonstrate Configuration Management and how does it help an organization.	10	CO3
Q8	Examine "Provisioning on Cloud"? Evaluate the benefits of cloud computing and how it is useful for DevOps Automation?	10(5+5)	CO3
Q9	Analyze the basic terminologies in Ansible. **OR** Describe Ansible Architecture.	10	CO2
Q10	Using an appropriate example, discuss the concept of playbooks in ansible.	10	CO1

	SECTION-C		
1. Each Question carries 20 Marks.			
2. Instruction: Write long answer.(1000-1200 words)			

Q 12	Elaborate the importance of SLDC? How Configuration Management is linked with DevOps? Mention the drawbacks of Configuration Management?
	
	OR
	
	Discuss the following terms in detail
	    a) Monitoring in DevOps
	    b) Automation in DevOps
	    c) Preventing Errors in DevOps
	    d) Track Changes in DevOps
		20	**CO1**

Q13.	Enlist Top 10 tools used for DevOps. Demonstrate the flow and integration of these tool for following processes.
	    a) Continuous Integration
	    b) Continuous Monitoring
	    c) Continuous feedback
		20(5+15)	**CO2**