Name:				
Enrolment No:		UPES		
UNIVERSITY WITH A PURPOSE UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination , December 2021 Course: Introduction to Virtualization and Cloud Computing				
Semester: III Program: B. Tech. CCVT Time 03 hrs.				
Course Code: CSVT2001 Max. Marks: 100				
SECTION A 1. Each Question will carry 5 Marks 2. Instruction: Write short answers				
S. No.	Question		CO	
Q 1	 known as computing. a) Parallel b) Soft c) Distributed d) Cloud (B) Which of the following type of virtuali a) Storage b) Application c) CPU d) All of the mentioned 	distributed network using virtualized resources is & zation is also characteristic of cloud computing?	CO2	
Q2	conditions.	&	CO2	
Q3	(A) The most important area of concern ina) Scalabilityb) Storage	cloud computing is	CO3	

	c) Security	
	d) All of the mentioned	
	&	
	(B) Type VM is full virtualization.	
	(a) 1	
	(b) 2 (c) 2	
	(c) 3 (d) All of the above	
Q4	(A) The essential element in cloud computing by CSA is	
Q4	a) Virtualization	CO3
	b) Multi-tenancy	0.05
	c) Identity and access management	
	d) All of the mentioned	
	&	
	(B) Which of the following terms describes a situation in which many virtual machines are	
	deployed without proper IT oversight?	
	a. Server sprawl	
	b. Server consolidation	
	c. Network virtualization	
	d. Virtual machine sprawl	
Q5	(A) When the cost of infrastructure and management is, cloud	
	computing is a suitable choice.	CO4
	a) high	
	b) moderate	
	c) low	
	d) none of the mentioned	
	&	
	(B) Which of the following characteristics should you consider when deciding whether to	
	deploy an application or service to a virtual machine?	
	a. Hardware requirements	
	b. Software support and compatibility	
	c. Licensing	
	d. All of the above	
	SECTION B	
	Each question will carry 10 marks Instruction: Write brief notes	
2.		
Q 6	Define Virtualization and different techniques to perform virtualization.	
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Q 7	Discuss classification of Distributed and Parallel Computing Systems			
Q 8	Justify why Workload Categorization is important in Cloud Computing Environment? Explain the various categories of Workloads suitable for cloud environment	CO2		
Q 9	Define Hypervisor? Explain its components and types in detail.			
SECTION C				
	Each Question carries 20 Marks.			
2.	Instruction: Write long answer.			
Q10	a) Discuss the benefits of the cloud over traditional IT infrastructure with detail.			
	a) Define Grid Computing,Destop Virtualization, Network Virtualization and the role of VPN in Cloud.	CO4		
Q11	a) Define various services model with Detail.	CO1		
	b) Discuss the importance of Server Virtualization with its execution environment with detail.			