Name: Enrolment No:		

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

Course: Introduction to Virtualization and Cloud Computing **Semester: VI**
Program: B. Tech. AIML,OSS,CSF **Time : 03 hrs.**
Course Code: CSVT2001P **Max. Marks: 100**

Instructions: All Questions are mandatory.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO

Q 1	(A) Applications and services that run on a distributed network using virtualized resources is known as _____ computing.
	
	    1. Parallel
	    2. Soft
	    3. Distributed
	    4. Cloud
	
	(B) Which of the following type of virtualization is also characteristic of cloud computing?
	    1. Storage
	    2. Application
	    3. CPU
	    4. All of the mentioned
		4	CO1

Q2	(A) Which of the following is not a type of cloud?
	
	    1. Private
	    2. Public
	    3. Protected
	    4. Hybrid
	
	(B) Point out the wrong statement:
	
	    1. Load balancing virtualizes systems and resources by mapping a logical address to a physical address.
	    2. Multiple instances of various Google applications are running on different hosts.
	    3. Google uses hardware virtualization.
	    4. All of the mentioned.
		4	CO2

Q3	(A) The essential element in cloud computing by CSA is _____	4	CO3

1. Virtualization
2. Multi-tenancy
3. Identity and access management
4. All of the mentioned

(B) Which of the following terms describes a situation in which many virtual machines are deployed without proper IT oversight?

1. Server sprawl
2. Server consolidation
3. Network virtualization
4. Virtual machine sprawl

Q4	Explain 'Self-Service Provisioning'.	4	CO1
Q5	State the examples of IaaS.	4	CO3

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SECTION B
(4Qx10M= 40 Marks)

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Q 6	Explain what does the delivery model - PaaS comprise of? Use suitable example.	10	CO1
Q 7	Define Virtualization? Decode the relationship between Virtualization and Cloud Computing?	10	CO2
Q 8	Describe in detail the benefits of the cloud over traditional IT infrastructure.	10	CO2
Q 9	Define various services model with Detail. OR Discuss the role of Live Migration and the Importance of Server Virtualization with detail.	10	CO4

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SECTION-C
(2Qx20M=40 Marks)

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Q 10	(A) Define Hypervisor? Explain its components and types in detail. (B) Analyze the Anatomy of Cloud in detail.	20	CO4
Q 11	(A) Elaborate on the steps followed when preparing for virtualization. (B) Discuss your understanding of the following: 1. Dropbox 2. VM 3. SLA 4. Service Catalog	20	CO3

	OR		
	(A) Demonstrate your understanding on 'BPAAS' with an example of your own choice'. (B) Define Desktop Virtualization, Grid Computing, Network Virtualization and the role of VPN in Cloud.		