Name: Enrolment No:	**UPES**

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Term Examination, December 2021

Course: Cloud Architecture & Deployment Models   Semester: VII
Programme: B Tech OSSOS/ CSF/ AIML   Code: CSVT 4004P
Time: 03 hrs   Max. Marks: 100

SECTION A

1. Each Question will carry 4 Marks, all questions are compulsory.

S. No.		CO
Q 1.	Compare the three types/categories of SaaS. Give examples of each category.	CO2
Q 2.	Describe any 4 services offered by Amazon Web Services (AWS) in brief.	CO1
Q 3.	Differentiate between Cloud Broker and Hybrid Cloud.	CO4
Q 4.	Differentiate between Anchored Lifecycle platforms and Integrated Lifecycle platforms.	CO2
Q 5.	Describe OpenStack. List important features of OpenStack along with architectural overview.	CO1

SECTION B

1. Each question will carry 10 marks.

Q 6.	Differentiate IaaS, PaaS and SaaS services. Explain using diagram.	CO2
Q 7.	Explain different Cloud Deployment Models with relevant diagrams.	CO4
Q 8.	Describe the Common Cloud Management Platform (CCMP) of IBM CCRA and differentiate between OSS and BSS.	CO3

Q 9.	Explain in brief:
	   a. Workload Distribution Architecture
	   b. Resource Pooling Architecture
	   c. Dynamic Scalability Architecture
	   d. Cloud Bursting Architecture
	
	                OR
	Describe Cloud Computing, its evolution and essential characteristics along with its advantages.
		CO1

SECTION-C

1. Each Question carries 20 Marks.
2. Instruction: Write long answer.

Q 10.	Describe NIST- Cloud Computing Reference Architecture in detail along with its Conceptual Reference Model and architectural components. **OR** Describe IBM- Cloud Computing Reference Architecture along with different roles and layers in detail.	CO3
Q 11.	Describe Private Cloud with its benefit and limitations. Describe in detail all steps for transition to private cloud by integrating all existing infrastructure.	CO4