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

Course: Introduction to Virtualization and Cloud Computing   Semester: VII
Programme: B Tech MAD/ BFSI/ OG   Code: CSVT2001P
Time: 03 hrs   Max. Marks: 100

SECTION A

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

S. No.		CO
Q 1.	Explain four common considerations in server virtualization?	**CO2**
Q 2.	What are the shortcomings of traditional IT infrastructures?	**CO1**
Q 3.	Describe in brief about Virtualization implement?	**CO1**
Q 4.	Explain the Host level of virtualization?	**CO2**
Q 5.	What are the shortcomings of physical infrastructures?	**CO1**

SECTION B

1. Each question will carry 10 marks.

Q 6.	Differentiate IaaS, PaaS, and SaaS services. Explain using the diagram.	**CO1**
Q 7.	Illustrate at least 5 benefits of Desktop Virtualization? How does it work?	**CO2**
Q 8.	Compare different Cloud Deployment Models with relevant diagrams?	**CO4**
Q 9.	Demonstrate the following: a. Private Cloud b. Hybrid Cloud OR Classify the cloud deployment decision factors?	**CO4**

SECTION-C

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

Q 10.	Demonstrate cloud computing in terms of the following terminologies: (a) Business Value (b) Business impact (c) Technological value (d) Configuration management database (e) Self-service ---OR--- Design and develop a cloud-computing framework for the small-scale product-based company? Compare Virtualization and Cloud Computing? Explain in brief about SLA and Service Catalog?	**CO3**
Q 11.	Conduct a case study on adopting virtualization and cloud workloads for any non-IT organization.	**CO5**