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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Supplementary Examination (Graduating Batch), March 2021 (ONLINE MODE)

Course: Introduction to Virtualization and cloud computing   **Semester: VIII**
Program: B.tech (CSE+IT)   **Time : 3hrs**
Course Code: CSVT2001   **Max. Marks: 100**
Instructions: Attempt all.

SECTION A

1. Each Question will carry 5 Marks

S. No.		Marks	CO
Q1	Differentiate between traditional IT infrastructures with virtualized infrastructures?	5	CO1
Q2	Define different types of server virtualization?	5	CO2
Q3	Differentiate between virtualization and cloud?	5	CO3
Q4	Define different cloud deployment models?	5	CO4
Q5	Compare and discuss the pre and post virtualization server stacks?	5	CO2
Q6	Describe hardware-assisted virtualization?	5	CO2

SECTION B

1. Each question will carry 10 marks
2. Instruction: Write short / brief notes

S. No.		Marks	CO
Q1	Discuss the different categories in which virtualization can be categorized?	10	CO1
Q2	Identify the different cloud architectures and cloud service models?	10	CO3
Q3	Discuss the different decision factors that accelerated cloud deployment?	10	CO3
Q4	Discuss the cloud delivery models along with its types?	10	CO4
Q5	"3 cloud architecture mistakes we all make, but shouldn't" Discuss the statement and elaborate on the mistakes?	10	CO4

SECTION C

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

| Q1 | Evaluate the ways that SaaS, PaaS, and IaaS are used to reduce Total Cost of Ownership (TCO) and increase Return on Investment (ROI).

OR

Create SaaS, PaaS, and IaaS architectural diagrams using Microsoft Visio or an equivalent such as Dia. Note: The graphically depicted solution is not included in the required page length. | | **CO4** |