

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, September 2022

Programme Name: B Tech (CSE + OGI)

Semester : III

Course Name : Introduction to Virtualization & Cloud Computing

Time : 03 hrs

Course Code : CSVT 2001

Max. Marks: 100

Nos. of page(s) : 2

SECTION A

ALL QUESTIONS ARE COMPULSORY

S. No.	Question	Marks	CO
Q 1	Define virtualization and cloud.	4	1
Q 2	Explain few challenges of traditional infrastructure which could be overcome by application virtualization.	4	1
Q 3	Describe VLAN and VPN concept.	4	1
Q 4	Describe host-based mirroring in storage level virtualization.	4	2
Q 5	Discuss type of storage virtualization.	4	2

SECTION B

ALL QUESTIONS ARE COMPULSORY. ATTEMPT ANY ONE FROM Q9

Q 6	Comprehend at least five benefits of application virtualization to an IT organization.	10	2
Q 7	Elaborate the advantages of network virtualization over traditional infrastructures.	10	3
Q 8	Explain delivery models of cloud computing.	10	4
Q 9	Discuss the components of cloud computing. OR Discuss at least five benefits of cloud computing.	10	2,3

SECTION-C

ALL QUESTIONS ARE COMPULSORY. ATTEMPT ANY ONE FROM Q11

Q 10	Explain concept of virtualization and discuss how it is different from traditional IT infrastructures.	20	2
Q 11	Explain hypervisors and their types. OR Discuss architecture of application virtualization in detailed way.	20	4