

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Introduction to Virtualization and Cloud Computing

Program: B. Tech. CSE with CSF

Course Code: CSIB 274

Semester : VII

Time : 03 hrs.

Max. Marks : 100

Instructions: There are three sections. Section A has 4 questions of 5 Marks each. Section B has 4 questions of 10 Marks each. Section C has 2 questions of 20Marks each.

SECTION A

S. No.		Marks	CO
Q 1	Explain Server Sprawling. How Virtualization can helps with this?	5	CO1
Q 2	Explain Application Virtualization. How Application Virtualization helps better handle the workloads?	5	CO2
Q 3	Discuss the most important features to classify IT service delivery as Cloud Based.	5	CO5
Q 4	What is High Availability? How it is an important feature in cloud systems?	5	CO4

SECTION B

Q 5	Why do we use VPN in Cloud Computing and where? List security protocols implemented in VPN.	10	CO1
Q 6	Distinguish between (a) Para and Full Virtualization (b) Binary Translation and Hardware Assisted Virtualization	10	CO2 CO1
Q 7	Explain Desktop Virtualization and various techniques to realize desktop virtualization.	10	CO3
Q 8	Explain the Cloud Delivery Models. Or Explain the Cloud Deployment Models.	10	CO3

SECTION-C

Q 9	Apply your learning to develop your own case study, to discuss the benefits of Virtualization. Analyze and describe working of type 1 and type 2 hypervisors. Draw neat illustrative diagrams to support your answer.	20	CO4 CO2
Q 10	<p>(a) Discuss the Cloud Anatomy with the help of a neat diagram.</p> <p>(b) For a hardware manufacturing, label the business function in accordance to the cloud anatomy.</p> <p style="text-align: center;">Or</p> <p>A leading telecom company experiencing slowdown in its core business i.e. telecom voice. The top leadership hires you as a Business Consultant to analyze their potential and suggest a model to harness their existing infrastructure to remain profitable. If you think in the line of Cloud in CAMS (next generation of technology business stack), What line of business would you suggest? Discuss the model with proper justification.</p>	20	CO5 CO4 CO3