UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Introduction to Virtualization and Cloud Computing   **Semester: V**
Program: B.Tech(CSE-IOT&SC)   **Time 03 hrs.**
Course Code: CSVT-2001   **Max. Marks: 100**

Instructions: Use examples and diagrams wherever applicable

	SECTION A		
S. No.		**Marks**	**CO**
Q1	Discuss any four benefits of VLAN.	**4**	**CO1**
Q2	Distinguish between Para and Full Virtualization.	**4**	**CO1**
Q3	Describe the workloads that are not suitable for Cloud.	**4**	**CO5**
Q4	Define following terms: (a).Multi-tenacy (b).Elasticity (c). Server Prawl (d). Grid Computing	**4**	**CO3**
Q5	Analyze and describe working of Type 1 and Type 2 Hypervisors. Draw neat illustrative diagrams to support your answer.	**4**	**CO2**
	SECTION B		
Q6	'CLR built over .NET Framework' and 'JVM' are good examples of Application Virtualization'. Justify. Also outline advantages of Application Virtualization.	**10**	**CO1**
Q7	Interpret the relationship between 'Virtualization and Cloud Computing'. Explain in your own words.	**10**	**CO3**
Q8	'Cloud computing is a 'pay-as-you-go' technique and turns out to be very economical'. Explain in your own words with suitable example.	**10**	**CO5**
Q9	Detail how does storage virtualization provide features of 'Interoperability', 'Manageability' and 'Scalability' Or Discuss benefits of Desktop Virtualization and describe its different types.	**10**	**CO1**
	SECTION-C		
Q10	Describe 'Anatomy of Cloud' in detail, explaining functions of all components.	**20**	**CO3**
Q11	Discuss the decision factors for choosing between different cloud deployment models. Use suitable examples, wherever applicable. Or Detail the cloud delivery models. Explain each with its benefits and applicability.	**20**	**CO4, CO5**