


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Introduction to Virtualization and Cloud Computing Program: B. Tech. Course Code: CSVT 2001		Semester: 3rd Time : 03 hrs. Max. Marks: 100	
Instructions: Attempt all questions			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	What are the economics concerns related with cloud computing?	4	CO1
Q 2	Differentiate among emulation, simulation, and virtualization.	4	CO2
Q 3	Briefly explain the role of different cloud service delivery model.	4	CO3
Q 4	(i) Set of servers that serve critical functions in the organization and Servers that constantly run at a higher utilization about 95% of the time can be retained as physical servers. True/False (ii) The workload consists of some amount of application program running in the computer and number of users connected to it and interacting with the computer's applications. True/False (iii) _____ enables dependent servers to be placed together on the same physical server and collected locally to enable better communication and reduction in communication and IO latency. (iv) Regulated Industry workloads adhering to PCI, HIPAA compliance regulations are not suitable for which clouds. a) Public b) Hybrid c) Private d) None	4	CO4
Q 5	Differentiate between Cloud, Grid and Cluster Computing.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	What are the open challenges of cloud computing?	10	CO1

	OR		
	Explain in detail the characteristics of a virtualized environment.		
Q 7	(a) Differentiate full virtualization and para-virtualization. (b) Differentiate between container and virtual machines.	5*2 = 10	CO2
Q 8	What is public cloud? Analyze a public cloud on the parameter of decision factors.	10	CO3
Q 9	What are the different types of workloads. Explain each in detail.	10	CO4
SECTION-C (2Qx20M=40 Marks)			
Q 10	What is cloud computing? Discuss its anatomy in detail. OR Discuss the different cloud deployment decision factor in context of hybrid cloud.	20	CO3
Q 11	What are the different types of virtualizations? Explain the different architectures for design of storage virtualization.	5+15 = 20	CO2