


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: Cloud Security and Management Program: B.Tech CSE+CSF, E-commerce, OSS, AI/ML Course Code: CSVT4009P		Semester : 8 Time : 03 hrs. Max. Marks: 100	
Instructions: Attempt each question with suitable representation of concepts.			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Define and differentiate SLAs and OLAs	4	CO4
Q2	Draw Chef Architecture Diagram. List components in each architectural block.	4	CO5
Q3	Outline different aspects involved in physical security of data center.	4	CO1
Q4	Describe the concept of Security as a Service	4	CO2
Q5	State what is Industry 4.0? List Technological Pillars of Industry 4.0. OR Illustrate different types of hypervisors with examples. Also enlist the advantages and disadvantages of each.	4	CO3
SECTION B (4Qx10M= 40 Marks)			
Q6	Illustrate diagrammatically the ITIL Framework for Service Management with steps and activities within each step. Describe Continuous Process Improvement.	10	CO4
Q7	List what are the different elements involved in Cloud Infrastructure Provisioning. Detail Network Provisioning in your own words.	10	CO5
Q8	Identify the top security risks in cloud computing. Explain the best security practices to reduce the risks associated with public cloud?	10	CO1
Q9	Explain how Business Continuity and Disaster Recovery is achieved? OR Analyze the life cycle and challenges of Identity and Access Management.	10	CO2
SECTION-C (2Qx20M=40 Marks)			

Q10	Detail what is Cyber Physical System? List and describe potential risks in in cloud migration.	20	CO3
Q11	Suppose a company A decides to setup a cloud to deliver Software-as-a-Service to its clients from a remote location. Answer the following. a)Analyze the security risks that a customer should to be careful about. b)Discuss the kind of infrastructural setup that will be required to set up a cloud. c)Interpret the kind of billing model, used by the cloud service provider for payment purpose. OR Compare different encryption techniques. Justify the usage of each technique by giving application in different scenarios.	20	CO2