

Name:	 UPES <small>UNIVERSITY WITH A PURPOSE</small>
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, December 2020

Course: Cloud Security & Management	Semester: V
Program: B. Tech. CCVT	Time 03 hrs.
Course Code: CSVT 3008	Max. Marks: 100

SECTION A

- 1. Each Question will carry 5 Marks**
- 2. Instruction: Complete the statement / Select the correct answer(s)**

S. No.	Question	CO
Q 1	In _____, attacker hacks a VM using any of the standard methods and then takes control of other VMs running on the same hypervisor. a) Coverting b) Host to guest escape c) Cartography d) None of the mentioned	CO1
Q2	A _____ virus rewrites itself completely at each iteration, using multiple transformation techniques. a) Encrypted Virus b) Polymorphic Virus c) Stealth Virus d) Metamorphic Virus	CO2
Q3	Software that collects information from a computer and transmits it to another system by monitoring keystrokes, screen data, and/or network traffic; a) Key Loggers b) System Monitor c) Spyware d) All of the mentioned	CO3
Q4	An unauthorized entity gains access to a system or performs a malicious act by posing as an authorized entity. a) Falsification b) Repudiation c) Masquerade d) All of the mentioned	CO4
Q5	_____ is an assurance and governance tool that continuously monitors AWS services based on AWS Well-Architected best practices. a. Accountability b. Conformity c. Accrediation d. Configuration Management	CO5
Q6	Which of the following is not true w.r.t the workflows in cloud? a) Can be implemented with less complexity b) Permits real-time provisioning c) Denoted by a Undirected Acyclic Graph	CO5

	d) None of the mentioned	
SECTION B		
1. Each question will carry 10 marks 2. Instruction: Write short / brief notes		
Q 7	Illustrate different types of hypervisors with examples. Also enlist the advantages and disadvantages of each.	CO2
Q 8	Describe the life cycle and challenges of Identity and Access Management.	CO3
Q 9	What do you understand by Virtualization. List and discuss any five types of virtualization in cloud computing.	CO1
Q 10	Compare and contrast between Single Tenancy and Multiple Tenancy. Describe various degrees of multiple tenancy with suitable example of each.	CO4
Q 11	Identify the top security risks in cloud computing. Describe the best security practices that can greatly reduce the risks associated with public cloud?	CO4
Section C		
1. Each Question carries 20 Marks. 2. Instruction: Write long answer.		
Q12	<p>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.</p> <ol style="list-style-type: none"> Analyze the security risks that a customer should to be careful about. Discuss the kind of infrastructural setup that will be required to set up a cloud. Interpret the kind of billing model, used by the cloud service provider for payment purpose. <p style="text-align: center;">— OR —</p> <p>Describe in detail how confidentiality and authentication can be achieved using asymmetric encryption with the help of block diagram.</p>	CO5