UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination – ONLINE MODE, _____2020

Course: Cloud Computing   Semester: VI
Program: BCA   Time   : 03 hrs.
Course Code: CSVT3003   Max. Marks: 100
Instructions: Attempt all questions. Assume any missing data and provide appropriate examples.

SECTION A [30 Marks]
All questions are compulsory and carries 5 marks each

S. No.		Marks	CO

Q1.	_____ eliminates most of the inflexibilities inherent in the hardware systems and allows for better manageability leading to a better utilization of the system.
	    a. Cloud Technology
	    b. Hardware
	    c. SaaS
	    d. Virtualization
		5	CO1

Q2.	Traditionally, organizations have relied on physical infrastructures to manage data and information. **YES/NO.**	5	
Q3.	If physical server is having 64GB of Memory then we can utilize its full memory for creating various virtual machines. **YES/NO**.	5	CO2
Q4.	Any logic written in software can easily converted to a hardware equivalent. **YES/NO**	5	
Q5.	UPES do not use cloud technology for its IT services. **TRUE/FALSE**	5	

Q6.	_____ is the first open source hypervisor for x86 machines.
	    a. Xen Hypervisor
	    b. Oracle Virtual box
	    c. VM ware
	    d. ZVM
		5	CO3

SECTION B [50 Marks]
Attempt four questions only. All questions carries equal marks

Q7.	Illustrate the benefits of Hybrid cloud services for UPES data Centre.	10	CO1
Q8.	Contrast the following: *IaaS and SaaS*	10	CO2

Q9.	Explain Type-I, and Type-II hypervisors through suitable examples.	10	CO3
Q10.	What is the significance of VPN and VLAN for any of the organizations like UPES?	10	CO4
	OR		
	List any four public cloud service providers and their service with example.	10	CO4

SECTION – C [20 Marks]
Attempt any one question

Q11.	A high magnitude earthquake took place on one night at SKYNET SYSTEMS. The SKYNET Data Centre severely damaged due to that disaster. You as a CIO of the SKYNET SYSTEMS review and discuss your action plan and strategies for managing all the IT Services in such situation. How you recover from such disasters, what are the precautions you have taken earlier, what are your disaster recovery strategies etc. Elaborate all the points with solution through cloud services. *(Hint: Backup/Recovery, VPN, VLAN, IaaS etc.)*	20	CO4
	OR		
	You are a NIC representative and deputed as a System Architect at UPES for reviewing UPES Data Centre and IT services. Now you have to migrate all the physical servers on to VM. Analyze the scenario and discuss which Virtualization technology will you prefer and why? *Design and suggest deployment keeping in mind that UPES can be functional during pandemic situations of Lockdown such as COVID19. As learning never stops at UPES.*	20	CO4