Name: Enrolm	ent No: UPES	UPES					
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES							
End Semester Examination, May 2019 Course: Cloud Deployment Model Semester: VI							
Prog		Code: CSIB378					
Time: 03 hrs Max. Mar							
	SECTION A						
S.No.		Marks	CO				
Q 1.	List four factors determining why Private Cloud is needed?[2 marks]Explain one of the factors.[2 marks]		CO1				
Q 2.	<i>Illustrate</i> Cinder Architecture diagrammatically with all its Components, Internal, &, External interfaces; and <i>Label</i> the type of each interface. [4x1 mark]	4	CO2				
Q 3.	<i>Represent</i> and <i>group</i> in a block diagram all IaaS, IaaS+, shared and deployment/management services in OpenStack. [4x1 mark]	4	CO3				
Q 4.	<i>Evaluate</i> and write a short note on vmware vCloud Suite, the commercial cloud deployment software platform.	4	CO4				
Q 5.	<i>Differentiate</i> between High Availability [HA] and Disaster Recovery [DR] in a Cloud Data Center.	4	CO4				
SECTION B							
Q 6.	 a. <i>Point out</i> basic networking functionalities offered by Neutron. [4 marks] b. <i>Draw</i> the networking architecture and flow diagram. [4 marks] c. Clearly <i>identify</i> type of each interface. [2 marks] 	10	CO2				
Q 7.	<i>List</i> and briefly <i>summarize</i> any 5 advance services of OpenStack. [5x2 marks]	10	CO3				
Q 8.	Compare Containerization with Virtualization by highlighting the differences.	10	CO4				
	Justify the need for SDN in Cloud Deployments.		CO4				
Q 9.	OR	10					
	<i>Create and explain</i> Microservice deployed by Containerization and maintained using DevOps using an example.		CO4				
	SECTION C						
Q 10.	<i>Construct</i> OpenStack Deployment Architecture for self service network on physical infrastructure. <i>Draw</i> block diagram. <i>Explain</i> the model.		CO3				
Q 11.	Cumulonimbus is a cloud service provider facing lot of issues in their compute, storage and network Data Center infrastructure. Cumulonimbus hired you as Automation Expert to solve their problem. <i>Describe</i> you plan of automation using any of the automation tools by giving 4 automation use cases. [5x4 marks] OR		CO5				
	As a CTO of WannaBeRich stock investment start-up, you are asked to deploy company IT infrastructure on Public Cloud. However, you are not convinced. You know that Hybrid Cloud implementation is the best solution for your start-up. <i>Present and Support</i> your views to the investors. Also, <i>Analyze</i> and highlight the potential issues that you might face during the Hybrid Cloud implementation.	20	CO5				

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S.No.		SECTION A	Marks	СО		
Q 1.	<i>List</i> the steps involved in building Priva	te Cloud?	4	CO1		
Q 2.		y <i>explain</i> Volume, Snapshot, Backup & Quota in Storage Service.[1x4 mark] 4				
Q 3.	<i>Discuss</i> the function and working of any one new/advanced OpenStack Service.			CO3		
Q 4.	<i>Evaluate</i> and write a short note on vmware vCloud Suite, the commercial cloud deployment software platform.			CO4		
Q 5.	Differentiate between User Access Management and a Firewall.			CO4		
		SECTION B				
Q 6.	Describe and Illustrate with diagram the storage devices] in Linux for implement	e .	10	CO2		
Q 7.	 a. <i>Relate</i> the <i>purpose</i> of 4 physical networks in a Cloud Data Center.[2x4 marks] b. <i>Represent</i> in a <i>diagram</i> the physical networks and their connectivity to different components. [2 marks] 			CO3		
Q 8.	Justify the need for SDN in Cloud Deple	oyments.	10	CO4		
	Compare Containerization with Virtual	ization by highlighting the differences.		CO4		
Q 9.		OR	10			
	<i>Create and explain</i> Microservice deployed by Containerization and maintained using DevOps <u>using an example</u> .			CO4		
SECTION C						
Q 10.	<i>Construct</i> any one of the possible Opena infrastructure. <i>Draw</i> block diagram. <i>Ex</i>	Stack Deployment Architecture on physical <i>cplain</i> the model.	20	CO3		
		f NoRains Beverages company you are your in-house IT infrastructure onto public rs that you will use in selecting cloud vendor. OR		CO5		
Q 11.	you have to <i>evaluate</i> the major vendors	InstantApp web-app development company like Amazon, Azure, Google, Oracle, andings to justify why you would select one	20	CO5		