Name: Enrolment No:	UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2019

Course: B. Tech. CSE with IOT & SC **Semester: VI**
Subject: Cloud Architecture and Deployment Models **Time: 03 hrs.**
Subject Code: CSEG 379 **Max. Marks: 100**
Instructions: The marks for each question are given before.

SECTION A

S. No.		Marks	CO
Q1	What is the difference between Block storage and Object storage?	5	CO3
Q2	Explain the difference between system call and hyper call. How are these handled?	5	CO1
Q3	List the various components of Classic Data Centre.	5	CO4
Q4	Discuss the different categories of policies in AWS.	5	CO3
SECTION B			
Q5. A.	What is Load Balancer?	4	CO3
B.	How many types of load balancers offered in AWS?	6	
Q6.	Explain server less programming. Discuss any one tool/ technique of your choice to implement server less programming.	10	CO3, CO4
Q7. A.	What are the tangible and intangible benefits of VDI?	4	CO2
B.	Discuss the various screen sharing techniques with example.	6	
Q8.	In a cloud based service environment, what are the benefits and challenges of portability and interoperability? Discuss a proper use case in support of your theory.	10	CO1, CO3
	Or		
	What are the various Cloud service delivery model?	10	CO1, CO3
SECTION C			
Q9. A.	Explain OpenStack and architectural diagram.	10	CO5
B.	Discuss the various key components of open stack.	10	
Q10 A.	Discuss the primary functions of Cloud Broker with example.	6	CO2

B.	Explain and differentiate between the following – i. Technical / Business Broker ii. Internal / External Broker	**14**	
	OR		
A.	List and discuss the various roles as defined in the IBM CCRA.	**10**	**CO2**
B.	With the help of neat diagrams, explain the BSS and OSS defined in IBM CCRA.	**10**	

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SECTION A

S. No.		Marks	CO
Q 1	Explain IAM	**5**	**CO3**
Q 2	Discuss the various types of instances in AWS.	**5**	**CO3**
Q 3	Discuss the benefits and challenges of VDI.	**5**	**CO1**
Q 4	Explain the flowing – i. SSH ii. RDP	**5**	**CO1**
	SECTION B		
Q 5 A.	Exhibit the benefit and usage of the auto-scaling feature in cloud IaaS service delivery model.	**10**	**CO3**
Q 6	Under Open Stack project which components are used for the following – i. Identity Management ii. Dash Board iii. Metering iv. Storage v. Network	**10**	**CO1, CO3**
Q7. A. B.	What is CCMP? How CCMP is managed in IBM CCRA?	3 7	**CO2**
Q8.	In a cloud based service environment, what are the benefits of portability and interoperability? Discuss a proper use case in support of your theory.	10	**CO2**
	Or		
A. B.	Discuss the primary functions of Cloud Broker with example.	**3** **7**	**CO2**

	Explain and differentiate between the following – iii. Technical / Business Broker iv. Internal / External Broker		
SECTION C			
Q9.	Explain and differentiate between the NIST and IBM CCRA.	**20**	**CO2**
Q10. A B	What is the functionality of AMI? Discuss various format for machine images with highlighting at least one interoperable machine image format.	**10** **10**	**CO2, CO3,**
Or			
	Explain the various Cloud Service Delivery models with proper example. Discuss the workflow of IaaS service delivery.	**10** **10**	**CO2, CO3**