

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Cloud Computing Architecture	Semester: V
Programme: B Tech CCVT	Code: CSIB377
Time: 03 hrs	Max. Marks: 100

SECTION A

S.No.		Marks	CO
Q 1.	What is Service Catalogue? Build/Illustrate an example of Cloud Service Provider's Service Catalogue.	4	CO1
Q 2.	a. What are the properties of optimized infrastructure? b. Analyze the function of Chargeback.	4	CO2
Q 3.	Describe and differentiate the purpose and function of a. Cloud Auditor and b. Cloud Broker	4	CO5
Q 4.	In context of software development life cycle justify the need and value of Platform as a Service (PaaS). Describe with an example scenario where PaaS is useful.	4	CO3
Q 5.	Compare the three types/categories of SaaS and describe each.	4	CO3

SECTION B

Q 6.	Define and describe the process of Cloud Service Provisioning. Illustrate with examples of provisioning.	10	CO2
Q 7.	List the steps involved in Cloud Transformation? Elaborate each step.	10	CO4
Q 8.	Define the purpose of the modules in the Salesforce.com software environment and describe each briefly.	10	CO3 CO4
Q 9.	Illustrate and describe GoogleApp Engine or Microsoft Azure or any other example of PaaS as a case study.	10	CO1 CO3
	OR		CO1 CO3
	Explain the considerations for using PaaS?		

SECTION-C

Q 10.	Draw the Cloud Computing Reference Architecture diagram. Analyze the purpose of each component. Describe in detail the break-up of Cloud Service Provider.	20	CO5
Q 11.	List the characteristics of IaaS? Describe each with examples. List and justify the motivating factors to rent infrastructure?	20	CO2 CO3
	OR		

	List and describe the characteristics of PaaS. Differentiate between the approaches to PaaS - Integrated life cycle, Anchored life cycle and Enabling Technologies as platform.		CO2 CO3
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SECTION A

S.No.		Marks	CO
Q 1.	Differentiate between Cloud Deployment Model and Cloud Service Delivery Model. List the various Deployment and Delivery models.	4	CO1
Q 2.	Describe the purpose and operations in System Management? Identify the properties of an automated systems? Elaborate each of the property.	4	CO4
Q 3.	List four SaaS service providers and explain their service offering.	4	CO3
Q 4.	Give examples of services available to a Cloud Consumer in IaaS, PaaS and SaaS.	4	CO3
Q 5.	Write a short note on layers of IT Infrastructure giving details of each layer.	4	CO5

SECTION B

Q 6.	Analyze the technological drivers that helped in advancement of Cloud Computing? Elaborate role of each technology.	10	CO2
Q 7.	Describe the concept of virtualization and explain differentiate between approach to virtualization?	10	CO4
Q 8.	Write a short note on Virtual Appliances explaining what and why of it. Give examples. What is Open Virtualization Format [OVF]? Why is it needed?	10	CO3 CO4
Q 9.	Explain in context of software development life cycle the need and value of PaaS. Give an example scenario where PaaS is useful.	10	CO1 CO3
	OR		
	Explain the EC2 IaaS services provided by AWS and detail two IaaS offerings like T3, M5 or such.		CO1 CO3

SECTION-C

Q 10.	Draw the Cloud Computing Reference Architecture diagram. Explain the purpose of each component. Describe in detail the break-up of Cloud Service Provider.	20	CO5
Q 11.	Describe the characteristics of IaaS? Explain each with examples. Justify the motivating factors to rent infrastructure?	20	CO2 CO3
	OR		

	List and describe the characteristics of PaaS. Differential between the approaches to PaaS - Integrated life cycle, Anchored life cycle and Enabling Technologies as platform.		CO2 CO3
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