

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Managing the Cloud
Program: BTech CSE (CCVT)
Time: 03 hrs.

Semester: VIII

Max. Marks: 100

SECTION A

S. No.		Marks	CO
Q 1	Draw OpenStack OR AWS Architecture Framework diagram with names of its components.	4	CO2
Q 2	Explain OR draw the split of Service Management responsibility between Service Provider and User in different cloud service models.	4	CO1
Q 3	Define trouble shooting? List at least four methods of trouble shooting.	4	CO3
Q 4	List the cause of data loss and briefly analyze the measures to prevent data loss.	4	CO4
Q 5	Differentiate between proactive and reactive maintenance with task examples.	4	CO2

SECTION B

Q 6	What is meant by Cloud Provisioning? List what all is provisioned as part of setting up a cloud environment for an enterprise? Explain in detail at least one of the components provisioning?	10	CO1
Q 7	Describe in detail the purpose and process of Cloud Monitoring. What is event, incident, problem and change management?	10	CO2
Q 8	Explain the workings of Configuration Management System? Detail purpose of CMDB?	10	CO2
Q 9a	What is meant by Interoperability in Cloud environment? What are the challenges faced in achieving interoperability among Cloud Service Providers? Explain different interfaces for interoperability along with diagram.	10	CO3
OR	OR		
Q 9b	List Cloud Security threats. Explain steps that can be taken to reduce the security breaches.	10	CO4

SECTION C

Q 10	Draw Cloud Reference Architecture diagram and explain the purpose and functioning of its components.	20	CO2
Q 11a	Draw ITIL Service Management Framework and detail the purpose and functioning of at least two of the stages.	20	CO1
OR	OR		
Q 11b	Case Study: Imagine an app based food delivery service – say LiveToEat – in which user can select food from any one of the different restaurants registered with the service provider and order food and pay for it online. In light of ITIL Service Management Framework give a brief overview of the service and explain at least two of the stages of LiveToEat service.	20	CO1

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SECTION A

S. No.	Question	Marks	CO
Q 1	Define Continuous Service Improvement. List seven steps in CSI.	4	CO1
Q 2	Define and explain the property of Elasticity in a cloud.	4	CO2
Q 3	List and describe briefly Cloud System Administration Tasks.	4	CO2
Q 4	Write a short note on Service Catalogue describing its purpose and functioning.	4	CO3
Q 5	List general security countermeasures. Describe at least one.	4	CO4

SECTION B

Q 6	Describe in detail the purpose and process of Cloud Monitoring. What is event, incident, problem and change management?	10	CO2
Q 7	Compare Configuration Management and automation tool – Chef, Puppet, Salt and Ansible. List ten Hosting Management tasks that you can automate? Outline the algorithm/flowchart/steps for ANY two tasks.	10	CO2
Q 8	Draw component model of BSS system. Explain the individual components.	10	CO3
Q 9a	List the legal issues in Cloud Computing environment? Analyze at least two of the issues?	10	CO3
OR	OR		
Q 9b	What is data loss? Describe the cause of data loss and analyze the measures to prevent data loss.	10	CO4

SECTION

Q 10	Draw ITIL Service Management Framework and detail the purpose and functioning of at least two of the stages.	20	CO1
Q 11a	Draw AWS Cloud Services Model and describe at least two of the foundation services.	20	CO2
OR	OR		
Q 11b	Case Study: Imagine a cloud hosting service – say YourHost – in which user can select infrastructure, buy it online, get access and pay for it periodically. In light of ITIL Service Management Framework give a brief overview of the service and explain at least two of the stages of YourHost service.	20	CO2