

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2021

Course: Cloud Deployment Model	Semester: IV
Programme: B Tech CCVT	Code: CSVT3002
Time: 03 hrs	Max. Marks: 100

SECTION A

1. Each Question will carry 5 Marks

2. Instruction: Complete the statement / Select the correct answer(s)

S.No.		CO
Sec A Q 1.	Describe two scenarios that highlight justification of choosing Private Cloud instead of Public Cloud setup. Give examples to support your justification.	CO1
Sec A Q 2.	Assume you are a low budget start-up <i>kabadi.com</i> in the business of selling waste recycling services. List five reasons why would you setup your services on Public Cloud.	CO1
Sec A Q 3.	You are a consultant invited by a medium size financial service provider <i>doubleyourmoney.com</i> who wants to transform its existing legacy data centers in four metros into private cloud setup. What steps you will take in building their Private Cloud?	CO1
Sec A Q 4.	In order to improve customer experience list FIVE use cases that you will automat in your Private Cloud.	CO1
Sec A Q 5.	As a Technical Sales Director of your storage service company – <i>BitByteBite.com</i> – list differences between your Block Storage and Object Storage services?	CO2
Sec A Q 6.	Give two examples where use of Hybrid Cloud Deployment is a better approach than using a Private Cloud or Public Cloud setup.	CO2

SECTION B

1. Each question will carry 10 marks

2. Instruction: Write short / brief notes

Sec B Q 1.	Differentiate between RESTful API and RPC by giving implementation examples from where and why they are used in OpenStack services.	CO3
Sec B Q 2.	List what are mandatory services in OpenStack implementation and explain why?	CO3
Sec B Q 3.	As Director of Service Assurance and Business Continuity for <i>LifeAndDeath.com</i> , a business critical data analytics services company. List the different measures you will take to implement High Availability and Disaster Recovery, respectively, for your Cloud Setup.	CO3
Sec B Q 4.	As Implementation Head of <i>BrassTracks.com</i> , you are asked to present requirements of physical servers, their minimal configuration and network connectivity for deployment of OpenStack in your data center. Illustrate your approach diagrammatically and briefly describe your solution.	CO4
Sec B Q 5.	a. Describe in detail the advanced OpenStack Service Ironic. <p style="text-align: center;">OR</p> b. Describe in detail the advanced OpenStack Service TripleO.	CO4

SECTION-C

1. Each Question carries 20 Marks.

2. Instruction: Write long answer.

Sec C
Q 1.

a. You are CTO of a startup *TheleWala.com* who is responsible for setting up the company's e-commerce website using OpenStack based Cloud setup. Describe your solution highlighting what are the OpenStack modules used and how? Illustrate your solution giving a diagrammatical representation of your solution. Assume you have to give basic web hosting services with backend database, give support for billing and monitoring, support analytics and such similar state of art services.

OR

b. You are Chief Architect of your mid-size enterprise *VeryWhiteCollar.com*. You are asked to move the legacy data center into Private Cloud using VMWare. Describe your solution indicating what VMWare components are used and what purpose those component serve? Describe your solution using a diagram.

CO5