Course Code: 20MCA265

Course Name: CLOUD COMPUTING

Course Outcome 1 (CO 1):

1. List and explain various components of Nova compute service.
2. Explain the neutron architecture?
3. Briefly describe keystone identity management.
4. What are the different components in OpenStack logical architecture?
5. Differentiate between private cloud and public cloud.
6. List and explain the different components in OpenStack Architecture.
7 a. Explain the provisioning of VM in OpenStack using a diagram

   b. Describe the best practices used in Physical mode design
8. Define cloud computing and its service models ?
9. What are the main components of Neutron architecture? Explain each
10. Explain OpenStack cloud architecture and any 4 service components.
11. Explain Nova compute service and its basic components.

Course Outcome 2 (CO 2):

1. Explain the telemetry services in OpenStack.
2. Explain the steps involved in bringing up a working OpenStack Ansible on the deployment host.
3. Explain the steps in network configuration
4. Explain asymmetric clustering and symmetric clustering.
5. List out the functionalities handled by the cloud controller
6 Explain the keystone architecture
7 Explain the steps involved in running OpenStack playbooks
8 Explain clustering and its types used in OpenStack.
9 What is the service provided for image management in OpenStack? Explain it.
10.Describe Keystone service and its service providers.

11. Explain the working of Ansible playbooks.

Course Outcome 3 (CO 3):

1. Explain briefly swift architecture

2. Briefly explain how data is handled in the cluster by swift

3. What is meant by CPU over commitment?

4. Briefly explain docker containers.

5. Compare object storage with NAS/SAN based storage

6. Explain in detail the multiple services involved in launching an instance

7. Explain the steps in deploying swift service

8 Write a short note on Cinder block storage service and its components.

9 What are the approaches available for segregating cloud services?

10.Write a comparison about Nova Docker driver and OpenStack Magnum project for hosting an application.

11. Describe Swift architecture.

Course Outcome 4 (CO 4):

1. Explain steps in associating a floating IP to a virtual machine.

2. Briefly explain the steps in creating a virtual network with two subnets

3. Briefly explain Linux bridge-based connectivity?

4. Describe the steps in connecting two networks using a virtual router.

5. Write a short note on firewall as a service

6. Explain the architecture of neutron in detail

7. Explain the categorization of neutron virtual networks in detail

8 Write a short note on Neutron plugins and its categorization.

9 Explain two type of Neutron subnet port connectivity

11.How to implement virtual network in OpenStack and also explain two categories of implementation.

12 Explain implementation of network security in OpenStack

Course Outcome 5 (CO 5):

1. Briefly explain the major components in heat?
2. Explain the different metrics that can be measured in a highly available infrastructure?
3. Explain the need for Service level agreement
4. List the HA levels in OpenStack.
5. Explain the purpose of HA proxy.
6. Explain stacking in OpenStack
7. Explain in detail steps involved in setting a database with high availability
8. Describe HA and its levels in OpenStack.
9. Differentiate Terraform and Heat in OpenStack orchestration.
10. Explain Heat orchestration in OpenStack.
11. Describe about HA proxy and its load balancing features.