

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Third Semester MCA (2 Year) Degree Examination December 2021

Course Code: 20MCA265

Course Name: CLOUD COMPUTING

Max. Marks: 60

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|----|---|-----|
| 1 | Define cloud computing and its service models. | (3) |
| 2 | What are the main components of Neutron architecture? Explain each. | (3) |
| 3 | Explain clustering and its types used in OpenStack. | (3) |
| 4 | What is the service provided for image management in OpenStack? Explain it. | (3) |
| 5 | Write a short note on Cinder block storage service and its components. | (3) |
| 6 | What are the approaches available for segregating cloud services? | (3) |
| 7 | Write a short note on Neutron plugins and its categorization. | (3) |
| 8 | Explain two type of Neutron subnet port connectivity. | (3) |
| 9 | Describe HA and its levels in OpenStack. | (3) |
| 10 | Differentiate Terraform and Heat in OpenStack orchestration. | (3) |

PART B

Answer any one question from each module. Each question carries 6 marks.

Module I

- | | | |
|----|--|-----|
| 11 | Explain OpenStack cloud architecture and any 4 service components. | (6) |
|----|--|-----|

OR

- 12 Explain Nova compute service and its basic components. (6)

Module II

- 13 Describe Keystone service and its service providers. (6)

OR

- 14 Explain the working of Ansible playbooks. (6)

Module III

- 15 Write a comparison about Nova Docker driver and OpenStack Magnum project for hosting an application. (6)

OR

- 16 Describe Swift architecture. (6)

Module IV

- 17 How to implement virtual network in OpenStack and also explain two categories of implementation. (6)

OR

- 18 Explain implementation of network security in OpenStack. (6)

Module V

- 19 Explain Heat orchestration in OpenStack. (6)

OR

- 20 Describe about HA proxy and its load balancing features. (6)
