Reg No.:_____ Name:_____

0520MCA265122102

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Third Semester MCA (Two Year) Degree Regular and Supplementary Examination December 2022

Course Code: 20MCA265
Course Name: CLOUD COMPUTING

Max. Marks: 60 Duration: 3 Hours

PART A

Answer all questions, each carries3 marks. Marks

1	Summarize on Nova service in OpenStack.	(3)
2	Differentiate between private cloud and public cloud.	(3)
3	Explain asymmetric clustering and symmetric clustering.	(3)
4	List out the functionalities handled by the cloud controller.	(3)
5	Summarize on docker containers.	(3)
6	Describe on the nova-conductor service.	(3)
7	Compare core plugin with service plugin.	(3)
8	Explain ML2 plugin.	(3)
9	List the HA levels in OpenStack.	(3)
10	Analyze the purpose of HA proxy.	(3)

PART B

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

Module I

11	List and explain the different components in OpenStack Logical Architecture.	(6)

OR

12	Illustrate the provisioning of VM in OpenStack using a diagram.	(6)

Module II

13	Explain the keystone architecture	(6)

OR

14	Describe on (a) Nova-scheduler service (b) Horizon dashboard (c) Telemetry services	(6)

Module III

15 Summarize on the following tools available in segregating the compute cloud; (6)

a) Availability zones

b) Host Aggregates

c) Nova cells

OR

16 Illustrate the Swift architecture with its physical design considerations using suitable diagram. (6)

Module IV

17 Explain the architecture of neutron in detail. (6)

OR

18 Summarize the two ways of implementing virtual networks with suitable diagrams. (6)

Module V

19 Explain stacking in OpenStack. (6)

OR

20 Explain in detail setting a database with high availability. (6)

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