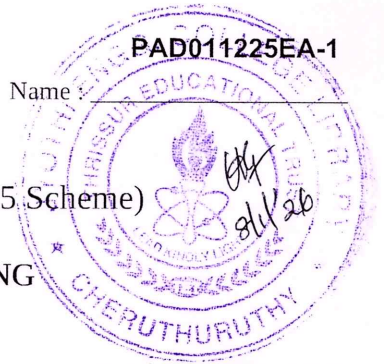


Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_



Jyothi Engineering College(Autonomous)  
M.Tech Degree S1 (R) Examination, December 2025 (2025 Scheme)



25PADT122- CONCEPTS IN CLOUD COMPUTING

Total Mark: 60

Total Time: 2hr 30min

CO MARK

**PART A**

Answer All Questions

1. Illustrate various cloud deployment models with appropriate figures. CO1 (5)
2. Design the OpenStack image management architecture. CO2 (5)
3. Analyze the various approaches to cloud segregation. CO3 (5)
4. Derive the steps to implement virtual networks using VLANs. CO4 (5)
5. Justify the importance of HA in OpenStack, based on various parameters. CO5 (5)

**PART B**

Answer Any Five Question(s)

6. Identify the factors to be considered in designing the OpenStack architecture? Discuss in detail about the various components of OpenStack with the help of an architecture diagram. CO1 (7)
7. Explain the functionalities of Nova Conductor and its interaction with the other OpenStack components. CO2 (7)
8. Explain the role of swift in object storage. Provide an overview of the steps in its deployment. CO3 (7)
9. Explore the different types of failures in OpenStack? Discuss the various methods for recovery. CO3 (7)
10. Design the architecture of neutron and explain the components. CO4 (7)
11. What are Neutron Subnets? Derive the procedure to connect virtual networks with routers and configuring routing service. CO4 (7)
12. Identify the methods to ensure high availability in RabbitMQ. CO5 (7)

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