

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM**IV B. Tech I Semester Advanced Supplementary Examinations March 2025****CLOUD COMPUTING WITH AWS****(Open Elective)**

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions. **ONE** Question from **Each unit**
All Questions Carry Equal Marks

UNIT-I

1. a) Discuss different types of cloud computing (Public, Private, Hybrid, and Community Cloud). [7M]
b) Explain cloud economics and the concept of Total Cost of Ownership (TCO). [7M]
(OR)
2. a) What are the key goals and challenges of cloud computing? Explain. [7M]
b) How does leveraging cloud computing benefit organizations? Provide use cases. [7M]

UNIT-II

3. a) Discuss SaaS integration services with examples. [7M]
b) What are Virtual Machines (VMs), and how do VM migration services work in IaaS? [7M]
(OR)
4. a) Discuss the benefits and limitations of IaaS. [7M]
b) Explain how PaaS integrates private and public clouds. [7M]

UNIT-III

5. a) Compare different types of hypervisors with examples. [7M]
b) Discuss different load-balancing techniques used in cloud environments. [7M]
(OR)
6. a) Explain how virtualization helps in disaster recovery and business continuity. [7M]
b) How does AWS Elastic Load Balancer (ELB) work? Explain with an example. [7M]

UNIT-IV

7. a) Explain AWS storage services and compare them with traditional storage methods. [7M]
b) Analyze the steps involved in setting up an AWS account and accessing AWS services? [7M]
(OR)
8. a) Explain AWS elasticity and its role in cloud resource management. [7M]
b) Discuss the importance of AWS Regions and Availability Zones in cloud deployment. [7M]

UNIT-V

9. a) Explain how automation helps in AWS cloud architectures. [7M]
b) Discuss sample architectures for deploying applications on AWS. [7M]
(OR)
10. a) Describe key principles of system design for high availability on AWS? [7M]
b) Explain reliability and performance efficiency in AWS architecture. [7M]
