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1912E1556

Candidate's Seat No:____

MCA Sem.-3
Cloud Computing
December-2025

Time : 3.00 Hours] **[Max.Marks : 50**

Instructions:

- **Write both the Sections in the separate answer book.**
- **Both Sections having equal weightage.**
- **Draw Diagrams wherever necessary.**
- **Make Assumptions wherever necessary.**

SECTION – I

Q-1. Explain the following terms. **05**

a. What is Cloud Computing?
b. Define Multi-region deployment.
c. What is resource pooling?
d. Define dedicated servers.
e. Cloud Elasticity

Q-2. Attempt the followings. **10**

a. Explain various deployment models of Cloud Computing.
b. Differentiate between cloud data centers and traditional data centers.

OR

Q-2. Attempt the followings. **10**

a. Discuss tenancy at Different Level of Cloud Services.
b. What's the difference between IAAS, PAAS and SAAS in cloud computing?

Q-3. Attempt the followings. **10**

a. Define scaling. Discuss various levels of scaling.
b. Discuss various goals of load balancing.

OR

Q-3. Attempt the followings. **10**

a. Discuss various challenges to be addressed in cloud native file system.
b. Discuss about Resource Provisioning Approaches.

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SECTION – II

Q-4. Explain the following Terms. **05**

a. Capacity planning
b. Load balancing
c. Map Reduce
d. Database-As-A-Service
e. Network Pool

Q-5. Attempt the followings. **10**

a. Explain different Security Control Types of Cloud Computing.
b. Define "serverless cloud computing" and discuss its use cases.

OR

Q-5. Attempt the followings. **10**

a. What are some best practices for securing data in the cloud?
b. Discuss any two open source Distributed Computing Tools for Management of Distributed Systems.

Q-6. Attempt the followings. **10**

a. Explain various perspectives on SaaS development in cloud computing.
b. Explain the role of Container Services and Notification Services in detail.

OR

Q-6. Attempt the followings. **10**

a. Discuss various challenges need to be considered while software development in cloud environment.
b. Discuss Microservices with its characteristics.

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