

Roll No.

[illegible]

Total No. of Questions : 09

MCA (Sem.-4)

CLOUD COMPUTING

Subject Code : PGCA-1937

M.Code : 91859

Date of Examination: 23-05-2025

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION - B & C have FOUR questions each.**
3. **Attempt any FIVE questions from SECTION B & C carrying TEN marks each.**
4. **Select atleast TWO questions from SECTION - B & C.**

SECTION-A

- 1. Write short notes on:**
- a) What is utility computing?
 - b) Define elasticity.
 - c) List two differences between public and private clouds.
 - d) What is an SLA?
 - e) Define resource pooling.
 - f) What is Hyper-V?
 - g) What is load balancing?
 - h) Define storage interoperability.
 - i) Differentiate between IaaS from PaaS.
 - j) What are baseline measurements?

SECTION-B

2. Describe cloud computing reference model layers. Explain evolution from distributed to cloud computing.
3. Explain virtualization techniques. Discuss advantages and disadvantages of virtualization in cloud.
4. Outline cloud migration approaches. Compare "lift and shift" versus "refactoring" strategies.
5. Describe cloud capacity planning process. Explain scaling strategies in cloud computing.

SECTION-C

6. Explain encryption strategies for cloud data security. Discuss auditing and compliance importance.
7. Describe cloud storage types with use cases. List resource management challenges.
8. Compare Azure and AWS compute and storage services. Explain Azure Platform Appliance.
9. Discuss energy efficiency strategies in cloud. Explain Market-Oriented and Federated Cloud concepts.

NOTE: Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.