



**III Semester M.C.A. (Two Years Course) Examination, May/June 2025  
(CBCS) (2021 – 22)  
COMPUTER SCIENCE  
MCA 3E4/MSC 3E4 : Cloud Computing (Elective)**

Time : 3 Hours

Max. Marks : 70

**Instruction : Answer any five questions in Section – A and any four in Section – B.**

**SECTION – A**

Answer any five of the following. Each question carries six marks. **(5×6=30)**

1. What are the core qualities of cloud computing ?
2. Explain various types of cloud service models.
3. Define SaaS integration. Explain the benefits of SaaS integration.
4. What is virtualization ? Discuss the types of VM migration services.
5. How is cloud computing different from distributed computing ?
6. Describe the cloud computing PaaS model.
7. What is Map Reduce ? Explain the logical data flow of map reduce function.
8. Explain the security threats and legal issues related to cloud computing.

**SECTION – B**

Answer any four of the following. Each question carries 10 marks. **(4×10=40)**

9. Discuss the cloud reference architecture and explain the responsibilities of various actors.
10. Explain the cloud application development life cycle.
11. What is grid computing ? Explain the working of grid computing.
12. Explain Hadoop ecosystem and mention its components.
13. a) What is Google App Engine ? Explain the advantages of Google App Engine. **5**  
b) Discuss Amazon web services. **5**
14. Discuss cloud security, its access controls and authentication in cloud computing.