

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2026
(Regular/Improvement/Supplementary)
COMPUTER SCIENCE AND MATHEMATICS (DOUBLE MAIN)
GDCS6B11T: CLOUD COMPUTING

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 marks)

1. Enlist the different types of web services.
2. What is Identity and Access Management (IAM) in cloud security?
3. Write a note on open V2.
4. Define NIST Cloud Computing Reference Architecture.
5. What is cloud storage?
6. Comment on server virtualization.
7. Define multi-tenancy in cloud computing.
8. What is Hybrid Cloud in Cloud Computing?
9. Comment on service-oriented architecture.
10. What is Hybrid Cloud?
11. Define HDFS.
12. What is Security Governance in Cloud Computing?

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 marks)

13. Describe the evolution of cloud computing and its importance.
14. Compare the layered cloud architecture design with traditional IT infrastructure designs.
15. Explain how Hadoop achieves scalability and parallel processing.
16. What is public cloud? Explain its benefits and challenges.
17. What are the main principles of SOA?
18. Describe hybrid cloud and its benefits and challenges.
19. What does IaaS stand for in Cloud Computing? Discuss its benefits and challenges.

SECTION C: Answer any *one* question. The question carries *ten* marks.

20. List and explain various tools and mechanization in data virtualization.
21. With the help of a diagram, explain the Hadoop ecosystem and its basic components.

(1 x 10 = 10 Marks)