

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024
(Regular/Improvement/Supplementary)

COMPUTER SCIENCE
FCSS3E01-VIRTUALISATION AND CLOUD COMPUTING

Time: 3 Hours**Maximum Weightage: 30****Section A: Short answer questions. Answer any *four* questions. Each carries *two* weightage***Write short notes on:*

1. Cloud computing and any of its four advantages.
2. Use of iterative map reduce.
3. Any two SaaS providers.
4. Virtualization and its importance.
5. Measures of SaaS security.
6. Eucalyptus.
7. Cloud platform management techniques.

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries *three* weightage.

8. Explain different types of cloud computing.
9. What are the security challenges of cloud computing?
10. Discuss HDFS Architecture.
11. Write a note on server virtualization.
12. What is open Nebula? Explain with architecture.
13. Discuss cloud virtualization and its types.
14. Explain cloud orchestration and its tools.

(4 × 3 = 12 weightage)

Section C: Essay questions. Answer any *two* questions. Each carries *five* weightage.

15. Explain cloud architecture with a neat diagram.
16. Give a detailed account on distributed programming and map reduce.
17. Discuss the importance of CPU Virtualization and its types in cloud computing.
18. Explain cloud service models and its characteristics.

(2 × 5 = 10 weightage)