

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022
(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.
2. Private cloud.
3. MapReduce.
4. Server virtualization.
5. OpenVZ.
6. Parallel and distributed paradigms.
7. Security in cloud.

(4 × 2 = 8 weightage)

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

8. Explain cloud service models.
9. List out and explain the types of cloud computing.
10. Write a note on Open Nebula.
11. Explain Linux KVM.
12. What is Apache Hadoop? List out its features.
13. Explain risk management in cloud computing.
14. Write down a short account on QEMU.

(4 × 3 = 12 weightage)

(P.T.O.)

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

15. Define cloud computing. What are its advantages and disadvantages?
16. With the help of a diagram, explain the HDFS architecture.
17. Explain cloud security challenges.
18. What is open stack? Explain its architecture.

(2 × 5 = 10 weightage)