

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**  
**(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. Virtual machine security.
2. Desktop virtualization.
3. Hybrid cloud.
4. Virtualization.
5. Twister.
6. Cloud orchestration.
7. Linux KVM.

**(4 × 2 = 8 weightage)**

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

8. Explain cloud computing advantages and security challenges.
9. Discuss different implementation levels of cloud virtualization.
10. What is map reduce? Explain with architecture.
11. Discuss any three tasks in open stack.
12. Write a note on security monitoring in cloud computing.
13. Explain different types of cloud and its advantages.
14. How distributed programming helps cloud computing? Illustrate your answer.

**(4 × 3 = 12 weightage)**

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

15. Explain different service models in cloud.
16. What is HDFS? Explain with neat architecture.
17. Write detailed notes on: a) Eucalyptus; b) Open Nebula.
18. Discuss security governance and risk management in cloud computing.

**(2 × 5 = 10 weightage)**