



VIT

Vellore Institute of Technology

Chennai - 600 127

**School of Computer Science Engineering and Information Systems (SCORE)
FALL 2023-2024**

Continuous Assessment Test (CAT – II)

Programme Name & Branch: MCA

Course Name & Code: PMCA506L Cloud Computing

Slot: C1 Class Number: VL2023240106196, VL2023240106200, VL2023240106198

Faculty Name: Dr. DAPHNE LOPEZ, Dr. SUBHASHINI R, Dr. NADESH R.K

Exam Duration: 90 Mins

Maximum Marks: 50

Answer all the Questions (5 *10 = 50 Marks)

1. Virtualization enables more efficient utilization of physical computer hardware and allows a greater return on an organization's hardware investment." -Justify with a Scenario.
2. Is it possible to move workload of multiple running virtual machines on a single physical machine? If so, elaborate the phases with appropriate illustrations.
3. Identify the kind of virtualization that provide better performance for an application that heavily uses system calls to manage a complex external device? Elaborate your answer with suitable use cases.
4. A multinational insurance company tries to get the feedback of clients' real time data about its new venture in India. Elaborate on the programming model for data processing.
5. Climate change prediction has become an important science, fundamental to the success of agriculture, virtually every other aspect of human enterprise. If you are to design a Hadoop Distributed File System, what are the requirements that would be addressed?
