



THE AMERICAN COLLEGE, MADURAI
(An Autonomous Institution Affiliated to Madurai Kamaraj University)
Re-accredited (2nd Cycle) by NAAC with Grade “A”, CGPA – 3.46 on a 4-point scale
Backlog Arrear Examination, March 2021

Course Code: MCA 6421

Time: 3 hours

Course Title: Distributed and Cloud Computing

Max. Marks: 75

Answer any five questions

(5*15=75 marks)

1. Explain the NIST cloud computing reference architecture in detail.
2. Describe the concept of virtualization for Data centre Automation.
3. Define the formal notation of MapReduce? Explain data flow and control flow of MapReduce.
4. Elaborate the Identity Management and Access Control in detail.
5. Discuss about the cloud software environments such as Open stack and Eucalyptus.
6. Explain the virtualization concept of CPU, memory and I/O devices
7. Discuss in detail about Hadoop architecture and operations
