Reg. No.

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
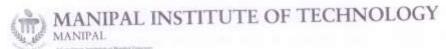A Constituent Institution of Manipal University

II SEMESTER, M.C.A.

END SEMESTER EXAMINATIONS, MAY 2017

SUBJECT: CLOUD COMPUTING [MCA 4204]
REVISED CREDIT SYSTEM

(29 / 04 / 2017)

Time: 3 Hours

MAX. MARKS: 50

1A.	Explain the cloud SLA components, metrics, and life-cycle.	5
1B.	Explain Map-reduce and Hadoop fault tolerance policies.	3
1C.	What are the five key features of cloud computing?	2
2A.	Explain the cloud load balancing algorithm evaluation parameters. Categorize the cloud load balancing algorithms, and explain the different types. Explain about the min-min load balancing algorithm.	5
2B.	Provide a comparative analysis between the public and private type of cloud deployment models.	3
2C.	Categorize and explain the difference between the types of scalability.	2

3A. Explain the cloud computing life cycle. What are the specific considerations while undertaking selection phase?   5

3B. Explain any six laws of behavioral cloudonomics.   3

3C. Explain the levels of abstraction in computer architecture.   2

4A. What are the key features of virtualization? Briefly discuss the five types of virtualization approaches, and how they differ from each other.   5

4B. Classify and explain the types data migration approaches.   3

4C. What are thin and thick clients? Which one is a better option to be used in a cloud service model, and why?   2

5A. What are the challenges with Big data? How can Map-reduce engine be used to solve big data related problems? Explain with an example.   5

5B. What are the cluster features and benefits? How is it different from grids?   3

5C. Explain the HDFS data-redundancy policy.   2