

Reg. No.



# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

## II SEMESTER MCA MAKEUP EXAMINATIONS JUNE 2019

SUBJECT: CLOUD COMPUTING (MCA 4204)

REVISED CREDIT SYSTEM

(17/06/2019)

Time: 3 Hours

MAX. MARKS: 50

### Instructions to Candidates:

- ❖ Answer ALL FIVE questions.
- ❖ Missing data may be suitably assumed.

- 1A. Explain different cloud computing deployment models. 5
- 1B. Describe Gartner's cloud computing security risks. 3
- 1C. List the steps of rule based auto scaling. 2
- 2A. Explain the steps of cloud SLA (Service Level Agreement) life cycle and SLA components. 5
- 2B. 

Process	Burst time
P1	5
P2	4
P3	16

 3
- For the given data, calculate average waiting time using SJF and Round Robin algorithm (time quantum= 4 units). Draw the Gantt chart for the above data.
- 2C. Differentiate between shared memory and distributed memory MIMD architecture. 2
- 3A. Define Cloud computing. List and explain the advantages and challenges of Cloud computing service when compared to traditional organizational system. 5
- 3B. Describe the factors for cloud vendor selection. 3
- 3C. Explain the following terms:- 2
- i) Resource pooling ii) Rapid elasticity

4A.	i) What are the classifications of load balancing algorithm?	5
	ii) What are the evaluation parameters in load balancing algorithms?	
	iii) Explain	
	a) Opportunistic load balancing algorithm	
	b) Min-Min load balancing algorithms.	
4B.	Explains various key challenges involved in IoT. Also write any two applications of IoT technology.	3
4C.	What are the phases in Map Reduce algorithm?	2
5A.	With suitable examples, explain different types of virtualization architectural models.	5
5B.	Explain any six Laws of Behavioral Cloudonomics.	3
5C.	Differentiate between Type I and Type II hypervisors.	2