



Year and Program: 2018-19

School of Technology

Department of FY M.Tech

Course Code: CCC505

Course Title: Design and
Development of Cloud
Applications

Semester – I

Date and Time :

End Semester Examination
(ESE)

Max Marks: 100

21 Dec 2018 & Friday
10:00 to 1:00 PM

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

		Marks	Level	COs
Q1	Solve any Two			
	a) Draw and explain delivery models with necessary activities that support the delivery models of Cloud Computing.	09	L2	CO1
	b) Describe Cloud Computing? Explain services of Cloud Computing.	09	L6	CO1
	c) Draw and explain Xen for x86 Architecture.	09	L5	CO1
Q2				
	a) Design MapReduce programming model in detail.	04	L5	CO2
	b) Describe Zookeeper model for coordination of cloud activities.	12	L6	CO2
	OR			
	b) Explain Challenges for cloud computing. Existing cloud applications and new application opportunities.	12	L5	CO2
Q3				
	a) Describe how to use S3 services in java.	06	L6	CO3
	b) Develop the process Connecting clients to cloud instances through firewall.	10	L5	CO3
Q4	Solve any Two			
	a) Draw and Explain OpenNebula cloud Architecture.	09	L2	CO4
	b) Describe Virtual Data Center? Explain How to create virtual Data center in OpenNebula-A.	09	L6	CO4
	c) Illustrate OpenNebulas Advanced components.	09	L4	CO4
Q5				
	a) Design System Requirements for installation of Eucalyptus.	06	L5	CO4
	b) Describe Eucalyptus? Draw and explain the architecture of Eucalyptus.	10	L6	CO4

OR

	b)	Illustrate the challenges in implementing the migration technique in Eucalyptus Cloud Infrastructure	10	L4	CO4
Q6	a)	Describe EC2? Explain two Amazon web services in detail	10	L6	CO3
	b)	Develop the installation of Simple Notification Service on Ubuntu 10.04	06	L5	CO3
