



# Sanjay Ghodawat University, Kolhapur

2017-18

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

FY M Tech

School of Technology

Semester I

CCC505

Design and Development of Cloud Application

Max Marks: 100

Nov 2017

End Semester Examination (ESE)

Time: 3 Hrs

8 DEC

- Instructions for Students:**
- 1) Use of non-programmable calculator is allowed
  - 2) All questions are compulsory

## Sample Format of Question Paper

Q1		Solve any Two	Marks	COs
	a)	Explain the three delivery models of cloud computing with necessary activities that support delivery models.	09	CO1
	b)	What is VMM? Give the taxonomy of VMs for the same and different ISAs.	09	CO1
	c)	Explain Zen a VMM based on paravirtualization.	09	CO1
<b>Q2</b>				
	a)	Write a note performance and security isolation in cloud computing.	04	CO1
	b)	Explain Challenges for cloud computing, Existing cloud applications and new application opportunities.	12	CO1
		OR		
	b)	Explain the Zookeeper model for coordination of cloud activities	12	CO1
<b>Q3</b>	a)	Explain different architectural styles used for cloud application design.	06	CO2
	b)	With a neat diagram explain organization of Grep the web application.	10	CO2

Q4		Solve any Two	Marks	COs
	a)	With a neat diagram explain Hadoop MapReduce programming EC2, DB, S3 and SQS Amazon services.	09	CO2
	b)	What is the procedure to launch EC2 linux instances	09	CO2
	c)	What are SQS services and how handle SQS services in C#	09	CO2

<b>Q5</b>				
	a)	Write a note on how to use S3 services in java	06	CO3
	b)	Describe the process Connecting clients to cloud instances through firewall	10	CO3
		OR		
	b)	Explain the fallowing i) How to install Hadoop on Eclipse on a Windows system ii) Security rules for application and transport layer protocols in EC2	10	CO3
<b>Q6</b>	a)	Draw and Explain OpenNebula cloud Architecture	10	CO4
	b)	Draw the architecture of Eucalyptus and explain the components.	06	CO4

\*\*\*\*\*