



SOMAIYA
VIDYAVIHAR UNIVERSITY

09.05.2024(E)

Semester: January 2024 –April 2024		
Maximum Marks: 100	Examination: ESE Examination	Duration:3 Hrs.
Programme code: 01	Class:TY	Semester:VI(SVU 2020)
Programme: B.Tech		
Name of the Constituent College: K. J. Somaiya College of Engineering		Name of the department: Computer Engineering
Course Code:116U01E629	Name of the Course: Cloud Computing	
Instructions: 1)Draw neat diagrams 2) All questions are compulsory		
3) Assume suitable data wherever necessary		

Que. No.	Question	Max. Marks
Q1	Solve any Four	20
i)	What are the key characteristics of cloud computing?	5
ii)	Describe the Infrastructure as a Service (IaaS) model.	5
iii)	Differentiate Public cloud and Private cloud.	5
iv)	Discuss third party cloud Services.	5
v)	Explain Google Cloud Platform.	5
vi)	Describe NIST (National Institute of Standards and Technology) cloud definition.	5

Que. No.	Question	Max. Marks
Q2 A	Solve the following	10
i)	Explain Cloud Reference model.	5
ii)	Write a note on Manjrasoft Aneka.	5
	OR	
Q2 A	Compare the compute, storage, and communication services of AWS and Google Cloud Platform?	10
Q 2 B	Solve any One	10
i)	Describe the role of virtualization in cloud computing?	10
ii)	Discuss some popular cloud-computing providers, and what distinguishes them from one another?	10

Que. No.	Question	Max. Marks
Q3	Solve any Two	20
i)	Explain the need of Virtualization in the context of Cloud Computing. Compare type-1 and type-2 Virtualization	10
ii)	Explain the concepts of Dockers, containers, and microservices in cloud computing?	10
iii)	Discuss the key features and benefits of Microsoft Hyper-V in the context of virtualization?	10

Que. No.	Question	Max. Marks
Q4	Solve any Two	20
i)	Explain in brief about Amazon web services (AWS).	10
ii)	Illustrate the concept of scientific application using cloud for ECG analysis.	10
iii)	Discuss some challenges and considerations when deploying multiplayer online gaming applications in the cloud?	10

Que. No.	Question	Max. Marks
Q5	Write notes on any four	20
i)	Hadoop	5
ii)	SalesForce.com	5
iii)	Google AppEngine	5
iv)	ERP	5
v)	SpotCloud	5
vi)	DevOps	5