

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

April – May 2023		
(B.Tech.) Program: Information Technology Scheme I/II: II		
Examination: TY Semester: VI		
Course Code: ITDLC6054 and	Course Name: Cloud Computing and Services	
Date of Exam: May 22,2023	Duration: 2.5 Hours	Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort or service provider interaction. Justify it	2	CO1	U
ii)	Differentiate between Type 1 and Type 2 Hypervisor.	2	CO2	U
iii)	List the Deployment model of Cloud Computing.	2	CO1	U
iv)	Explain Monitoring as a Service.	2	CO3	U
v)	Write a short note on DynamoDB.	2	CO3	U
vi)	Explain role of CloudWatch in cloud environment	2	CO4	U
vii)	Explain Neutron Service in Openstack.	2	CO5	U
viii)	Define Privacy in Cloud environment	2	CO6	U
Q.2	Solve any four questions out of six.	16		
i)	Explain Role of Cloud Computing in Indian Economy.	4	CO1	AN
ii)	Explain OS level Virtualization.	4	CO2	U
iii)	Describe Backup as a Service.	4	CO3	U
iv)	Compare Elastic Block Storage vs Object Storage.	4	CO4	U
v)	Write a short note on Serverless Computing.	4	CO5	U
vi)	Discuss different attack on Cloud Environment.	4	CO6	U

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

April – May 2023
 (B.Tech.) Program: Information Technology Scheme I/II: II
 Examination: TY Semester: VI
 Course Code: ITDLC6054 and Course Name: Cloud Computing and Services
 Date of Exam: May 22,2023 Duration: 2.5 Hours Max. Marks: 60

Q.3	Solve any two questions out of three.	16		
i)	Write a short note on Virtual Private Cloud.	8	CO4	
ii)	Consider TCS Digital Platform for Next Gen Agriculture (DNA) caters to stakeholders from the agriculture sector like agri-finance, agri-banking, and farmers. Draw and explain how the TCS DNA platform uses cloud services for processing of Geo-Spatial data analysis on 329 million hectares of area in India to determine the crop area, crop health, crop yield, and soil moisture.	8	CO1	AN
iii)	Explain Role of Hypervisor.	8	CO2	U
Q.4	Solve any two questions out of three.	16		
i)	Describe following services of OpenStack <ul style="list-style-type: none"> • Compute Service • Image Service 	8	CO5	U
ii)	Explain Identity Access Management.	8	CO6	U
iii)	Explain Software as a Service.	8	CO3	U
