

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22

(Autonomous College Affiliated to University of Mumbai)

End Semester Exam

Nov – Dec 2021

(B.Tech/M.Tech.) Program: Electronics and Telecommunication

Examination: LY Semester: VII

Course Code: 1UEXDLC7044 and Course Name: Cloud Computing & Security

Duration: 03 Hours

Max. Marks: 60

Instructions:

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

Q No.	Questions	Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight.	12	-	-
i)	What are some of the key features of Cloud Computing?	2	CO1	R
ii)	Write on Mobile Cloud Computing	2	CO4	U
iii)	How do you monitor Amazon VPC?	2	CO5	R
iv)	Describe AWS	2	CO3	R
v)	Define Hypervisor? Mention hypervisors types	2	CO2	U
vi)	What are the security aspects provided with cloud?	2	CO6	R
vii)	State the different types of cloud services	2	CO3	U
viii)	Define 'users,' 'role' and 'tenant' in OpenStack.	2	CO4	R
Q.2	Solve any four questions out of six.	16		
i)	Explain any four components involved in the OpenStack	4	CO4	U
ii)	Write short note on AWS EC2 Instance Types	4	CO5	U

iii)	Write note on HIPAA Compliance and HIPAA Privacy Rule	4	CO6	U
iv)	Describe Hybrid Cloud with Advantages and Disadvantages	4	CO1	U
V)	Describe Software as a Service with advantages and disadvantages	4	CO3	U
Vi)	Explain Full Virtualization and Para Virtualisation	4	CO2	U
Q.3	Solve any two questions out of three.	16		
i)	Explain Xen architecture in detail.	8	CO2	U
ii)	Explain Infrastructure as a Service architecture.	8	CO3	U
iii)	Explain Identity and Access Management(IAM) and its working?	8	CO6	U
Q.4	Solve any two questions out of three.	16		
i)	Explain Elastic Block Storage and EBS volume	8	CO5	U
ii)	Explain Database as a Service (DBaaS)	8	CO3	U
iii)	Explain Google File System (GFS) Architecture	8	CO4	U