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

Nov - Dec 2024

(B. Tech) Program: Electronics and Telecommunication\_Scheme: II Regular Examination: LY Semester: VII

Course Code: EXDLC7044 and Course Name: Cloud Computing & Security

Max. Marks: 60 Duration: 2.5 Hours Date of Exam: 23/11/24

## Instructions:

(1)All questions are compulsory.

(2)Draw neat diagrams wherever applicable.

3)Ass	sume suitable data, if necessary.  Question	Max. Marks	CO	100	BT evel
No.	(05 marks each)	10			
21	Solve any two questions out of three: (05 marks each)		CO		U
a)	List the Pros and Cons of cloud computing.		CO	2	U
b)	Explain different types of hypervisors with examples?		CO	3	U
c)	What is Network as a Service (NaaS), and how does it work?		-	+	
Q 2	Solve any two questions out of three: (05 marks each)	10	CC	1	U
_	Explain Architecture of Google File System?				U
a)	Differentiate between S3 and Amazon Glacier		CC		U
b)	What are the risks associated with cloud computing?		CC	)6	-0
c)	Solve any two questions out of three. (10 marks each)				
Q.3	How does the KVM architecture operate, and what are its key components and functions? Analyze how it differs from other hypervisors.	1		03	U
b)	Explain Platform as a Service (PaaS) architecture			05	U
-	Explain Flastic Load Balancing (ELB). How it dynamically distributes traffic			05	
c)	three (10 marks each)	20			
(Q.4 a)	How would you apply Identity Management as a Service (IDaaS) to enhance		7	03	Ap
	the security of a remote workforce:		(	CO4	Ar
b)	Explain the conceptual architecture of OpenStack. Describe how you would use <b>Horizon</b> to monitor and manage OpenStack resources, such as virtual machines, networks, and storage volumes, from a centralized interface.			001	A
(c)	TAM to allow users access to resources based on			CO6	A