

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

May-June 2026		
(B. Tech / M. Tech.) Program: B. Tech Scheme: II B		
Regular Examination: LY Semester: VIII		
Course Code: ITDLC8022 and Course Name: Cloud Security		
Date of Exam: 21/05/2026	Duration: 02.5 Hours	Max. Marks: 60

Instructions: (1) All questions are compulsory. (2) Draw neat diagrams wherever applicable. (3) Assume suitable data, if necessary.				
Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	Explain the architecture of cloud computing with a neat diagram.		CO1	U
b)	Analyze the different phases of the cloud data lifecycle.		CO3	An
c)	Explain cloud monitoring tools to detect suspicious activity.		CO4	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain the role of auditing in maintaining cloud infrastructure security.		CO2	U
b)	Apply threat identification techniques in application development.		CO5	A
c)	Explain cloud governance policies in service deployment.		CO6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Discuss different risks associated with cloud infrastructure security.		CO2	U
b)	Apply firewall and NAT in a real-world cloud deployment.		CO4	A
c)	Apply identity federation in cloud IAM systems.		CO5	A
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Apply DMZ, firewall, and segmentation to secure a banking cloud system.		CO4	A
b)	Apply authentication and authorization mechanisms in cloud apps.		CO5	A
c)	Apply data ownership and protection laws in cloud platforms.		CO6	A
