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

May-June : 2025-2026 Jan – Feb 2026

(B. Tech.) Program: Computer Engineering   Scheme: IIB

Supplementary   Regular: LY   Semester: VII

Course Code: HCSC701 and   Course Name: Security Information Management

Date of Exam: 21/11/2025   Duration: 02.5 Hours   Max. Marks: 60

10/02/2026

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

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any **two** questions out of three: (05 marks each)	10		
a)	If you are deploying an application on a cloud platform (e.g., AWS or Azure), what specific actions would you take to secure the application code and data? Provide examples of cloud tools or services you could use.		CO2	Ap
b)	Apply threat modeling techniques to identify vulnerabilities in an IoT system.		CO3	Ap
c)	Differentiate between policies, procedures, guidelines, and standards in InfoSec		CO1	U
Q 2	Solve any **two** questions out of three: (05 marks each)	10		
a)	Explain the concept of role-based access control (RBAC) with real-world examples		CO4	Ap
b)	Explain the role of Active Directory in securing a network		CO6	U
c)	Explain the concept of RTO (Recovery Time Objective) and RPO (Recovery Point Objective). How do these concepts apply to the recovery of healthcare applications that store patient records and critical medical data?		CO5	Ap
Q.3	Solve any **two** questions out of three. (10 marks each)	20		
a)	Demonstrate a step-by-step approach to secure a Windows server using Group Policy.		CO6	Ap

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b)	Explain the interrelationship between COBIT, Cadbury, and ISO 27001 in governance			CO2	U
c)	Explain how OWASP guidelines can prevent CSRF attacks			CO6	Ap
Q.4	Solve any **two** questions out of three. (10 marks each)	20			
a)	Develop a risk management plan for a financial institution			CO3	Ap
b)	Apply disaster recovery planning metrics (such as RTO, RPO, WRT, MTD, and backup frequency) to a real-life scenario of an e-commerce company recovering from a major server outage, and explain how these metrics guide the recovery strategy with suitable examples.			CO5	Ap
c)	Explain the concept of role-based access control (RBAC) with real-world examples			CO4	U

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