

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

Jan-- Feb 2026	
M. Tech.Program:M.Tech. (Computer Engineering - Artificial Intelligence)_Scheme II	
Regular/ Examination: FY Semester: I	
Course Code:PCEILC1056 & Course Name:Cyber Security and Laws	
Date of Exam: 16/1/2026	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)	Define cybercrime. Explain any two classifications of cybercrime.		1	2
b)	Explain digital signatures and their legal validity under IT Act, 2000.		2	2
c)	Explain intellectual property rights in cyberspace.		4	2
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Cyber Crime and Criminal Justice: Penalties, Adjudication and Appeals Under the IT Act, 2000, IT Act. 2008 and DPDP IN 2025 and its Amendments.		5	3
b)	Explain the purpose of Information Security Standards. Describe the role of any one standard such as ISO/IEC 27001.		6	2
c)	Explain keyloggers and spyware. How do they compromise user confidentiality?		3	2
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain SQL Injection and Buffer Overflow attacks with suitable examples and security controls.		3	2
b)	Explain cyber forensics and its role in cybercrime investigation.		4	3
c)	What are the penalties prescribed under Section 43 of the IT Act, 2000?		5	2
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Explain cyber terrorism and its impact on national security.		5	2
b)	Describe the process of digital evidence collection and preservation with real time example		4	2
c)	Explain FISMA and NERC standards. Discuss their role in securing government systems and critical infrastructure.		6	4