

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

Nov – Dec 2023		
( M.Tech.) Program: AIDS_Scheme II		
Examination: MTech Semester: I		
Course Code: PCEILC1056	Course Name: <b>Cyber Security and Laws</b>	
Date of Exam: 2/1/2024	Duration: 2.5 Hours	Max. Marks: 60

Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
No.	QUESTION STATEMENTS	Max. Marks	CO	B T lev el
Q 1	<b>Solve any six questions out of eight</b>	12		
i)	Define two types of cyber offenses associated with social engineering techniques.	2M	CO1	U
ii)	Describe the significance of registry settings for mobile devices in ensuring security and mention two specific settings that contribute to device protection.	2M	CO2	U
iii)	Define two types of cyber offenses associated with social engineering techniques.	2M	CO2	R
iv)	What is Identity theft? How does it happen?	2M	CO3	U
v)	Briefly explain two security implications that organizations may face concerning mobile devices.	2M	CO4	A
vi)	List out how a DoS (Denial of Service) attack differs from a DDoS (Distributed Denial of Service) attack,	2M	CO6	U
vii)	Explain two methods used for the preservation of digital evidence in cybercrime investigations and highlight their significance in maintaining integrity.	2M	CO4	U
viii)	Explain the significance of ISO 27001 certification in information security management for organizations and outline two main benefits that come with achieving this certification.	2M	CO6	C
Q.2	<b>Solve any four questions out of six.</b>	16		U
i)	Explain in detail the significance of the reconnaissance phase in Cybercrime planning, highlighting its role in identifying potential vulnerabilities and gathering crucial information for an attack.	4M	CO1	
ii)	Elaborate on the psychological impact of cyberstalking on victims, discussing how the continuous harassment and invasion of privacy through digital means can affect their mental well-being.	4M	CO2	U



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iii)	Analyze the role of multi-factor authentication (MFA) in enhancing password security. How does MFA help protect against password cracking attacks?	4M	CO3	U
iv)	Discuss the importance of the commencement of operation by licensed certifying authorities in the context of enhancing the security and trustworthiness of electronic transactions.	4M	CO4	U
v)	Explain Defamation, Harassment And Email Abuse	4M	CO5	U
vi)	Discuss the core objectives of FISMA and how it enhances information security within federal agencies.	4M	CO6	U
Q.3	<b>Solve any two questions out of three.</b>	16		
i)	Analyze and contrast various information security standard compliance frameworks, highlighting their unique approaches and key principles in ensuring data protection and organizational security."	8M	CO6	A
ii)	Examine the pivotal role of digital evidence within cyber law cases, outlining the complexities involved in preserving and presenting this evidence during court proceedings.	8M	CO4	An
iii)	Investigate the role of appellate authorities in interpreting and applying provisions of the IT Act, 2000, and its amendments. Analyze notable cases where appeals played a pivotal role in shaping the legal landscape for cybercrimes. Discuss the implications of these cases on the broader understanding and enforcement of cyber laws in India. .	8M	CO5	U
Q.4	<b>Solve any two questions out of three.</b>	16		A
i)	Examine the mechanisms through which password cracking, keyloggers, and spyware undermine security. Propose an integrated approach incorporating technological and behavioral strategies to counter these threats effectively.	8M	CO3	U
ii)	What are the different aspects in Cyberspace? explain any four aspects in details	8M	CO4	U
iii)	Examine the impact of DoS and DDoS attacks on network services, proposing strategies for organizations to mitigate and fortify resilience against these threats.	8M	CO2	C

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