

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

End Semester Exam

March 2023

MTech Program

2.5 Course Code: **PCET14056** and Course Name: Cyber Security and Laws

Duration: 3 Hours

Max. Marks: 60

Instructions:

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

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Analyze the Motives behind cybercrime		1	3
ii)	Explain techniques for Neutralizing Attack Vectors.		1	2
iii)	Differentiate between weak passwords, strong passwords and Random passwords.		1	4
iv)	Discuss Business Software Patenting and copyright. (Intellectual property Aspect)		2	3
v)	What is HIPAA Compliance? What is Protected Health Information?		4	1
vi)	Discuss methods of mobile authentication.		1	2
vii)	Compare what does IT Act 2008 say about Digital Signature, Electronic Signature and E-governance?		3	3
viii)	Discuss how to minimize buffer overflow?/		1	2
Q.2	Solve any four questions out of six	16		
i)	Discuss Objectives, Scope, Applicability and Limitations of Information Technology Act, 2000		5	2
ii)	What to do in case you are being cyber stalked? How to avoid cyber stalking?		6	3
iii)	What is Identity theft? How does it happen?		1	2
iv)	Which activities are laid down by the World Intellectual Property Organization (WIPO)?		2	2
v)	Discuss the various tools for Network Security		3	2
vi)	Show in brief hacking in wireless networks (WEP, WPA, WPA-2)		4	2
Q.3	Solve any two questions out of three.	16		
i)	List and explain the major strategies employed to ensure cyber security		2	2
ii)	Discuss various types of E-commerce. What is the role of EDI in E-commerce evolution? (Electronic Data Interchange)		6	2
iii)	Explain cybercrime and criminal justice in Indian IT Act 2000.		5	2
Q.4	Solve any two questions out of three.	16		
i)	Illustrate various steps in security Life Cycle for the Enterprise Mobile Device Solution including Laptop.		1	3

ii)	Draw and explain Botnets structures. How Do Botnets Work?		1	2
iii)	Discuss Goals and Requirements of PCI-DSS		4	2
