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

May2026
(B. Tech) Program: All Branches Scheme IIB
Regular Examination: TY Semester: VI
Course Code: HCSC601 and Course Name: Digital Forensics (Cyber Security Honors)
Date of Exam: 30/05/2026 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)	Write a short note on Cyber Frauds with suitable use case.		CO1	U
b)	What is a role of forensic investigator?		CO2	U
c)	Explain the booting process in detail with a suitable example.		CO3	U
Q 2	Solve any **two** questions out of three: (05 marks each)	10		
a)	What is volatile data? What is order of volatility of digital evidences?		CO4	U
b)	Commission of cybercrime may be divided into how many groups? Describe them in brief.		CO5	U
c)	Describe the procedure for retrieving files in cached space and in unallocated space during windows forensics process.		CO3	U
Q.3	Solve any **two** questions out of three. (10 marks each)	20		
a)	How is registry information important in windows forensics? Explain with example.		CO4	U
b)	Sony Pictures Entertainment suffered a major cyberattack in 2014 in which attackers used phishing emails and malware to gain unauthorized access to company systems. Employees received malicious emails that installed malware when opened. The attackers stole confidential emails, employee information, unreleased movie data, and business documents. For this use case identify the four types of possible email attacks and suggest a solution to prevent those attacks.		CO5	Ap

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c)	Illustrate the concept of wireless intrusion detection systems with example.		CO6	U
Q.4	Solve any **two** questions out of three. (10 marks each)	20		
a)	Describe different types of wireless attacks with example.		CO6	U
b)	Write a short note on a) Privacy is big issue in emailing b) Different types of email attacks		CO5	U
c)	Elaborate the life cycle of Mobile Forensic Process with respect to case study		CO6	U

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