



SEMESTER END EXAMINATIONS – MAY 2023

Program	: B.E. – Common to ECE / EEE / EIE / ETE / MLE / ME / IEM / CH	Semester	: I
Course Name	: Introduction to Cyber Security	Max. Marks	: 100
Course Code	: ETC146	Duration	: 3 Hrs

Instructions to the Candidates:

- Answer one full question from each unit.

UNIT - I

- Who are cyber criminals? Discuss the types of cyber crimes. CO1 (10)
 - Discuss the following with respect to cyber crime: i) cyber space ii) cyber warfare iii) cybersquatting iv) Email spoofing v) Password Sniffing. CO1 (10)
- What are the categories of cyber crime? Explain with an example for each. CO1 (10)
 - Discuss Indian and global perspective of cybercrimes. CO1 (10)

UNIT - II

- Explain the various attack vectors, by which an attacker can gain access to computer networks. CO2 (06)
 - What are botnets? What are the countermeasures to be undertaken to protect the system against botnet? CO2 (08)
 - What is cybercafé? What are the safety and security measures to be adopted while using the computer in a cybercafé? CO2 (06)
- What is cyberstalking? List the types of cyber stalkers and explain how stalking works? CO2 (10)
 - How criminals plan the attacks? Mention salient features of passive attacks and active attacks. CO2 (10)

UNIT - III

- Differentiate between virus and worms. CO3 (10)
 - What is DOS attack? Discuss the different types of DOS attack. CO3 (10)
- What is Keylogger? Discuss the types of Keylogger. CO3 (10)
 - Describe the following: Backdoors, Steganography. CO3 (06)
 - Mention attacks on wireless networks. CO3 (04)

UNIT- IV

- Define Phishing and discuss the different methods of phishing. CO4 (10)
 - What is identity theft? Explain with examples. CO4 (10)
- Explain the different types of ID theft? Discuss with one example. CO4 (10)
 - What is spear phishing? Explain with examples. CO4 (06)
 - Differentiate between SPAM and HOAX mail. CO4 (04)

UNIT - V

9. a) Discuss the challenges of computer forensic in cyber security in briefly. CO5 (10)
b) What precautions should be taken while collecting electronic evidence? CO5 (05)
c) What are the things to be avoided during a cyber forensic/digital forensic investigation? Discuss briefly. CO5 (05)
10. a) Explain the importance of "Chain of custody" concept. Provide with an example to illustrations to supports your answer. CO5 (10)
b) Define Evidence? According to the Indian IT act amended the Indian Evidence Act 1872. What is all information included explain and in context of digital evidence define physical, logical and legal context piece of digital evidence. CO5 (10)

