

Code No.: CY405PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

II-B.TECH-II-Semester End Examinations (Supply) -June- 2025

INTRODUCTION TO CYBER SECURITY

(CSC)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) Define Cyber warfare and cyber terrorism. [2M]
- b) What are the various motives of attackers? [2M]
- c) What are the various IT acts of Indian legislation to govern cybercrimes rigorously? [2M]
- d) What are the various acts in the IPC 1980? [2M]
- e) Mention popular attacks in 3G mobile networks. [2M]
- f) What is the difference between Push and Pull attacks? [2M]
- g) What is the Blue-shield blue cross fraud? [2M]
- h) What are the different intellectual properties in the cyber space? [2M]
- i) What is zero-day attack? What is the main intention behind it? [2M]
- j) Define Data linking, and its advantage. [2M]

PART-B

(50 Marks)

2. Describe in detail comprehensive cyber security policy. [10M]

OR

3. Explain in detail what the layers of cyber security are. [10M]

- 4.a) Explain the process of digital forensics. [5M]

- b) Discuss the historical background of cyber forensics. [5M]

OR

5. Describe in detail Digital forensics life cycle. [10M]

6. How can you provide cryptographic security for Mobile devices? [10M]

OR

7. Discuss in detail about credit card frauds and tips to prevent credit card frauds. [10M]

- 8.a) Describe the mindset and skills of hackers and cyber criminals. [5M]

- b) What are the factors navigating social computing? [5M]

OR

9. Illustrate the four key dimensions of privacy and the security threat paradigm shift over the years with a neat diagram. [10M]

10. Explain any three illustrations of financial frauds in cyber domain. [10M]

OR

- 11.a) Discuss Data profiling challenges and tools. [5M]

- b) What can you infer from the case studies of The Indian Case of online Gambling and Indian Case of Intellectual Property Crime? [5M]
