CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Regular) - December- 2025
CYBER SECURITY (IT)

[Time: 3 Hours]   [Max. Marks: 60]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 10 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   (10 Marks)

1. a) Who are cybercriminals?   [1M]
   b) What is meant by information security?   [1M]
   c) What is cyberstalking?   [1M]
   d) Define attack vector.   [1M]
   e) What is credit card fraud in mobile computing?   [1M]
   f) List any two registry settings that improve mobile device security.   [1M]
   g) What is a Trojan horse?   [1M]
   h) Define steganography.   [1M]
   i) What are web threats?   [1M]
   j) What is the meaning of social media marketing?   [1M]

PART-B   (50 Marks)

2. Describe the relationship between cybercrime and information security with   [10M]
   examples.

OR

3. Analyze how the IT Act 2000 addresses cybercrimes in India and its limitations.   [10M]

4. Explain how social engineering can be used to execute cyber offenses.   [10M]

OR

5. Evaluate the role of botnets in large-scale cyberattacks.   [10M]

6. Discuss the major security challenges in the mobile and wireless computing era.   [10M]

OR

7. Examine how organizational policies can reduce the risks of mobile-based cyber   [10M]
   threats.

8. Explain the working principles of password cracking, spyware, and keyloggers.   [10M]

OR

9. Analyze how SQL Injection and Buffer Overflow can compromise system security.   [10M]

10. Evaluate the cost of cybercrimes to organizations and suggest preventive strategies.   [10M]

OR

11. Discuss how social computing creates challenges for organizational privacy and   [10M]
    security.

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