

Code No.: IT851PE

R20

H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–II–Semester End Examinations (Regular) – April - 2025

ETHICAL HACKING

(IT)

[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) List out the types of hackers. [2M]
- b) Distinguish between hacker and user. [2M]
- c) What is hacking phase? [2M]
- d) What are the limitations of ethical hacking? [2M]
- e) What was reconnaissance used for? [2M]
- f) What are the goals of social engineering attackers? [2M]
- g) What is the fastest password cracker in the world? [2M]
- h) What does wardialing mean? [2M]
- i) What are the three groups of hackers? [2M]
- j) What does mitigate threats mean? [2M]

PART-B

(50 Marks)

- 2.a. Illustrate the nine steps in the ethical hacking framework. [5M]
- b. Describe the pros and cons of ethical hacking and risk analysis. [5M]

OR

- 3.a. Illustrate the role of a thread or a group of threads to track the success and tactics of the exploitation. [5M]
- b. Explain the typical security architecture with the help of a diagram. [5M]

- 4.a. Explain the business challenges with respect to business perspective. [5M]
- b. Describe the pros and cons of multi-phased attacks. [5M]

OR

5. Illustrate the imposed limitations while planning for a controlled attack. [10M]
6. Explain the concepts of prowling and surfing in social engineering. [10M]

OR

- 7.a. Explain the concept of technical preparation required while preparing for a hack. [5M]
- b. Why is social engineering effective? What are the factors that make companies vulnerable to social engineering attacks? [5M]

8. Illustrate the elements of enumeration. [10M]

OR

9. Demonstrate the process overview for enumeration moving into vulnerability analysis. [10M]

10. Explain the various phase in deliverable in detail in ethical hacking? [10M]

OR

11. Explain the following [10M]
i) Mitigation ii) Defense planning iii) Incident Management iv) Security policy.
