

Code No.: CY613OE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

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

FUNDAMENTALS OF ETHICAL HACKING

(CSM)

[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) Name some of the top vulnerabilities. [2M]
- b) What are the components of information security? [2M]
- c) State the phases of a multi-phased attack. [2M]
- d) What tools are commonly used in the reconnaissance phase of a multi-phased attack? [2M]
- e) What is passive reconnaissance? [2M]
- f) What are the different types of social engineering attacks? [2M]
- g) What are the types of password cracking techniques? [2M]
- h) Define threads. [2M]
- i) What is integration in ethical hacking? [2M]
- j) What is attack mitigation? [2M]

PART-B

(50 Marks)

- 2.a) What are the skills required for ethical hacker? [5M]
- b) Why ethical hacking is necessary? What do ethical hackers do? [5M]

OR

3. Explain the process of information security to secure information systems. [10M]

4. Explain the pros and cons of multiphase attack. [10M]

OR

5. Summarize the inherent limitations and imposed limitations. [10M]

6. Explain social engineering life cycle and computer based social engineering in detail. [10M]

OR

7. Describe in detail about the technical preparation. [10M]

8. Demonstrate how threads and groups are used in exploitation. [10M]

OR

- 9.a) How does a password cracker work? Discuss. [5M]

- b) What is enumeration? What is meant by null sessions? [5M]

10. Describe the overall structure of deliverable. [10M]

OR

11. What is incident management? What is the purpose of incident management process? [10M]
