

CMR ENGINEERING COLLEGE: : HYDERABAD**UGC AUTONOMOUS****III-B.TECH-II-Semester End Examinations (Supply) - June- 2025****ETHICAL HACKING****(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) What is a framework? [2M]
- b) List the layers in the defense-in-depth model. [2M]
- c) What are the security threats that are facing by the companies? [2M]
- d) What are the different types of controlled attacks that can be planned? [2M]
- e) List the Teams Building for a successful engagement. [2M]
- f) Why is dumpster diving considered a security threat? [2M]
- g) What should an ethical hacker do after completing the enumeration phase? [2M]
- h) What is the purpose of evasion techniques in exploitation? [2M]
- i) How can an ethical hacker ensure findings are aligned? [2M]
- j) How should the findings influence the security policy? [2M]

PART-B**(50 Marks)**

2. What are the major categories that the digital assets impacted? [10M]
- OR**
3. Explain in detail the common characteristics of hardening a system. [10M]
4. What role does a security policy play in guiding ethical hacking activities within an organization? [10M]
- OR**
5. What are inherent limitations in the context of a controlled attack? [10M]
6. What are the key technical preparations required before conducting a hack? [10M]
- OR**
7. Describe social engineering in the context of reconnaissance? [10M]
8. Discuss various enumeration techniques used by ethical hackers. [10M]
- OR**
9. How does an ethical hacker apply intuitive testing during a penetration test? [10M]
10. Why is it important to define clear deliverables before starting a penetration test? [10M]
- OR**
11. What key elements should be included in the integration summary? [10M]
