

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-II-Semester End Examinations (Supply) - December- 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 about 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 the 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. Explain in detail about to define clear deliverables before starting a penetration test?	[10M]
OR	
11. What are the key elements should be included in the integration summary?	[10M]
