CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–II–Semester End Examinations (Advanced Supply) – June- 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)   What do you mean by hacker?   [2M]
   b)   Distinguish between reconnaissance and enumeration.   [2M]
   c)   List out the security challenges in business.   [2M]
   d)   What are the attack phases in ethical hacking?   [2M]
   e)   What does mean by physical security in ethical hacking?   [2M]
   f)   What does reconnaissance mean?   [2M]
   g)   Explain the elements of enumeration.   [2M]
   h)   What is evasion in ethical hacking?   [2M]
   i)   What does mitigate threats mean?   [2M]
   j)   What is deliverable in ethical hacking?   [2M]

PART-B   (50 Marks)

2. a)   Explain framework in ethical hacking. How does it's apply to attacking a system?   [5M]
   b)   Illustrate the three types of hackers.   [5M]

OR

3.   Explain the concept of network security and respect to the defense-in-depth model.   [10M]

4. a)   Explain the concept of security policy and respect to business perspective.   [5M]
   b)   List and explain any four security drivers and security characteristics in business challenges   [5M]

OR

5. a)   Explain the types of series multi-phased attacks.   [5M]
   b)   Compare and construct between the hacking and ethical hacking.   [5M]

6.   Explain the common targets for social engineering attacks.   [10M]

OR

7. a)   Elaborate the concepts of observation and dumpster diving in physical security.   [5M]
   b)   In detail about, Why do hackers do reconnaissance?   [5M]

8.   What is enumeration? Explain different enumeration techniques.   [10M]

OR

9. a)   Explain the concept of threads and groups to exploitation.   [5M]
   b)   Elaborate the several ways of hacker to detect attacking an organization.   [5M]

10.   Explain the summary in phases of integration and ethical hacking.   [10M]

OR

11.   Illustrate the structure of the document.   [10M]

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