**Code No.: R22CY601PC**

| R22 | H.T.No. | | | 8 | R | | | | | |
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### CMR ENGINEERING COLLEGE: : HYDERABAD
### UGC AUTONOMOUS
### III–B.TECH–II–Semester End Examinations (Supply) - December- 2025
### INTRODUCTION TO CYBER SECURITY
### (CSC)

**[Time: 3 Hours]**        **[Max. Marks: 60]**

**Note:** This question paper contains two parts A and B.

    Part A is compulsory which carries 10 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        (10 Marks)

1. a) Define DNS. [1M]
   b) What is the role of radio-frequency identification? [1M]
   c) Define proxy. [1M]
   d) Define attacker motivation. [1M]
   e) Define shell code. [1M]
   f) Define reconnaissance in cyber-attacks. [1M]
   g) What is persistent software? [1M]
   h) What is form grabbing? [1M]
   i) What is a honey pot? [1M]
   j) Define code analysis. [1M]

### PART-B        (50 Marks)

2. Explain the various cyber security fundamentals with examples. [10M]

**OR**

3. Explain the concept of Windows security tokens and their uses. [10M]

4. Explain the working and purpose of tunneling techniques. [10M]

**OR**

5. Discuss the impact of threat infrastructure on cyber security. [10M]

6. Explain web exploit tools and how they are used to attack vulnerabilities. [10M]

**OR**

7. Demonstrate the use of cross-site scripting (XSS) in cyber-attacks. [10M]

8. Discuss virtual machine detection techniques used by malware. [10M]

**OR**

9. Explain browser helper objects and their security implications. [10M]

10. Explain memory forensics in detail. Discuss its importance in the cyber-attacks with example. [10M]

**OR**

11. Discuss the role of intrusion detection systems in cyber security. [10M]

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