

TEEGALA KRISHNA REDDY ENGINEERING COLLEGE**(UGC – AUTONOMOUS)****M TECH I Semester Examinations, August 2021****Information Security****Time: 3 Hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 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**5 × 5 Marks = 25**

1. a) List and define Security Attacks.
b) Explain MAC Algorithms SHA-512
c) What is Digital signature Standard?
d) Define Secure Electronic Transaction (SET).
e) What is meant by Web security?

PART-B

2. (i) Discuss the various features of Security Services [10]
OR
(ii) Explain DES with suitable examples. Write the strengths of DES.
3. (i) Describe RSA algorithm with suitable examples [10]
OR
(ii) Illustrate Message authentication and Hash Functions with examples .
4. (i) Explain the different secure block ciphers in MAC? [10]
OR
(ii) Discuss Pretty Good Privacy (PGP) and S/MIME with examples
5. (i) Summarize Combining Security Associations and Key Management [10]
OR
(ii) Describe Secure Socket Layer (SSL) with examples
6. (i) Explain Viruses and related threats [10]
OR
(ii) Discuss Intrusion Detection Systems.