



Regulation R17
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1P7EA

B.Tech IV Year I Semester Supplementary Examinations, January 2023
NETWORK SECURITY AND CRYPTOGRAPHY

(CSE)

Maximum Marks: 70

06-01-2023

Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is plain text & cipher text?
- 2 What is Encryption and Decryption?
- 3 What is the use of Simplified DES?
- 4 Define counter mode.
- 5 What do you know about one-way authentication?
- 6 List the fields of X.509 authentication certificate.?
- 7 What is email compatibility?
- 8 List different MIME content types.
- 9 What is an intruder?
- 10 Define insider attacks?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain security attacks in detail? [10]
- OR
- 12 Explain hill cipher with example? [10]
- 13 Explain AES algorithm in detail? [10]
- OR
- 14 Explain Block Cipher Modes of Operation. [10]
- 15 a) List the differences between Kerberos version 4 and 5.
b) Explain about CMAC. [5+5]
- OR
- 16 Explain about digital signatures. [10]
- 17 Explain web security in detail. [10]
- OR
- 18 Explain S/MIME in detail. [10]
- 19 Write in detail about password management? [10]
- OR
- 20 a) Discuss the purpose of SA selectors?
b) Discuss about the documents regarding IPSec protocol? [5+5]

