



Regulation R18

Subject code: 2E7FG

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, April 2024

INFORMATION SECURITY

(Information Technology)

Maximum Marks: 70

Date: 27.04.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

- 1 Define passive attack with an example.
- 2 What is interruption?
- 3 How many block cipher modes of operation are there what are those?
- 4 Compare block ciphers with stream ciphers.
- 5 Define Traffic padding.
- 6 How many Digital signatures are there what are those?
- 7 List the benefits of IPsec.
- 8 Define payload length.
- 9 What is Firewall?
- 10 What are different alert codes of TLS protocol?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain any three substitution techniques with suitable examples. [10M]
OR
- 12 a) Write about steganography? [5M]
b) Explain security mechanisms. [5M]
- 13 Explain key distribution. [10M]
OR
- 14 Explain DES algorithm. [10M]
- 15 Write a short note on Kerberos. [10M]
OR
- 16 Explain CMAC. [10M]
- 17 a) Write a short note on Pretty Good Privacy. [5M]
b) Give IP Security architecture with neat diagram. [5M]
OR
- 18 Explain Key management. [10M]
- 19 a) Summarize the differences between SSL and TLS. [5M]
b) Explain SSL Record Protocol. [5M]
OR
- 20 Explain types of viruses. [10M]