



R18 Regulation **Subject code: 2E7FG**
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)
B.Tech VII Semester Supplementary Examinations, December 2024

INFORMATION SECURITY
(IT)

Maximum Marks: 70

Date: 02.01.2025

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		CO	Bloom Tx
1	What is cryptography?	1	L1
2	Different passive attack with an example.	1	L1
3	How many block cipher modes of operation are there what are those?	2	L1
4	Compare block cipher with stream cipher.	2	L1
5	Define hash function.	3	L1
6	Define Message Authentication Code?	3	L1
7	List the benefits of IPSEC.	4	L1
8	Define payload length?	4	L1
9	What is intrudes?	5	L1
10	What is firewall?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Discuss in detail about various types of security attacks with diagrams. [10M]	1	L2
OR			
12	What is symmetric key cryptography? Discuss its advantages. [10M]	1	L2
13	Explain key distribution? [10M]	2	L2
OR			
14	Explain RSA algorithm with suitable example. [10M]	2	L2
15	Write a short note on Kerberos. [10M]		L2
OR			
16	Explain the different MIME content types. [10M]	3	L2
17	Explain SSL record protocol. [10M]	4	L2
OR			
18	Draw the IP security authentication header and explain the functions of each field. [10M]	4	L2
19	Summarize the differences between SSL and TLS? [10M]	5	L2
OR			
20	Discuss about Password Management. [10M]	5	L2