



R20 Regulation *Subject code:3P7EB*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)
B.Tech VII Semester Regular Examinations, November 2023

INFORMATION SECURITY
(Computer Science and Engineering)

Maximum Marks: 70

Date:12.12.2023 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) Bloom Tx

1	What are the types of security attacks?	L1
2	What is Security?	L1
3	List some Legal Bodies.	L1
4	What Standards should we taken for Security?	L1
5	In risk management strategies why does a periodic review have to be a part of process?	L1
6	What is the formula for calculating risk?	L1
7	Write difference between Cipher text and Plan Text.	L1
8	Write a short note on Key Exchange.	L1
9	What is Access Control?	L1
10	List out the design goals of firewalls.	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		
11	A. Explain CNSS Security model and its components. (5M) B. Write the Information Security programs objectives CIA. (5M)	L2 L2
OR		
12	A. Explain the Types of Cyber Attacks. (5M) B. Write in detail about Intellectual Properties? (5M)	L2 L1
13	List and discuss the role and focus of any four professional organizations providing information security. (10M)	L1
OR		
14	A. Write short notes on Blueprint and Security Education. (5M) B. How Do You Create a Good Information Security Plan? (5M)	L1 L1
15	A. Explain the risk control cycle process. (6M) B. What are the four ways to manage risk? (4M)	L2 L1
OR		
16	A. What are the different types of quantitative risk analysis? (5M)	L1

	B. What is the SWOT tool for risk management? (5M)	L1
17	A. Differentiate conventional (symmetric) from public key (asymmetric) encryption. (5M)	L2
	B. What are the features of public key and Private key infrastructure? (5M)	L1
	OR	
18	A. Explain about information security implementation approach? (5M)	L2
	B. What are the phases of the security certification and accreditation process? (5M)	L1
19	A. What are the recommended practices in designing firewalls? (5M)	L1
	B. Compare between Firewalls and VPNs. (5M)	L2
	OR	
20	Explain about Intrusion Detection and Prevention Systems. (10M)	L2