R20 Regulation *Subject code:3E7GB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

INFORMATION SECURITY

(CSE(AI&ML))

Maximum Marks: 70 Date: 15.05.2026 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.
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)		Marks	CO	BTL
1	What is vandalism?	2M	1	L1
2	What are human errors in information security?	2M	1	L1
3	List out the types of laws.	2M	2	L1
4	What is security planning?	2M	2	L1
5	Differentiate risk identification and risk control.	2M	3	L1
6	What is risk management?	2M	3	L1
7	Write about project planning.	2M	4	L1
8	Differentiate encryption and decryption.	2M	4	L1
9	Write down the firewall rules.	2M	5	L1
10	Explain the phases of SDLC.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain in detail about CNSS model.	10M	1	L2
	OR			
12	What is contingency planning? Explain the components of contingency planning.	10M	1	L2
13	Discuss about the types of threats to the information security.	10M	2	L2
	OR			
14	a) What is information security governance? Who in the organization should plan for it? b) What is a policy? How is it different from a law?	5M 5M	2	L2
15	Discuss briefly about components of risk management.	10M	3	L2
	OR			
16	a) What are vulnerabilities? How do you identify them? b) What is single loss expectancy? What is annualized loss expectancy?	5M 5M	3	L2

17	Explain Early Codes, More Modern Codes in encryption.	10M	4	L2
	OR			
18	What is a project plan? List and explain what a project plan can accomplish.	10M	4	L2
19	Define Digital Forensics. Explain Methodologies.	10M	5	L2
	OR			
20	a) What is a VPN? Why is it becoming more widely used? b) Discuss about Protecting Remote Connections.	5M 5M	5	L2