R20 Regulation *Subject code:3E7GB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, October 2026

INFORMATION SECURITY

(CSE(AI&ML))

Maximum Marks: 70 Date: 04.11.2026 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 Security?	2M	1	L1
2	Differentiate attack and threat.	2M	1	L1
3	List out Relevant U.S. Laws.	2M	2	L1
4	What are the approaches are there in ISSP.	2M	2	L1
5	What is the difference between risk appetite and risk tolerance.	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	What risk assessment means? How risk assessment is done?	10M	3	L2

17	Discuss in detail about the Public Key Cryptography.	10M	4	L2
	OR			
18	What are the categories of constraints to project plan implementation? Explain each of them.	10M	4	L2
19	What is the typical relationship among the untrusted network, the firewall, and the trusted network?	10M	5	L2
	OR			
20	Explain the domains of Security Maintenance Model.	10M	5	L2