



R20 Regulation

Subject code:3E7GB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INFORMATION SECURITY

(CSE(AI&ML))

Maximum Marks: 70

Date: 03.12.2025

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.
 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 software attack?	2M	1	L1
2	What is balancing security?	2M	1	L1
3	What is ethics in information system?	2M	2	L1
4	What are 3 elements of cyber ethics?	2M	2	L1
5	What is a risk assessment?	2M	3	L1
6	What are the steps in risk control?	2M	3	L1
7	What is the use of accreditation?	2M	4	L1
8	What are basic aspects of security?	2M	4	L1
9	What are the benefits of digital forensics?	2M	5	L1
10	What are the security access controls?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What are the main points of information security and How can we protect information security?	10M	1	L2
OR				
12	Explain Briefly Balancing Information Security and Access.	10M	1	L2
13	Explain about ethical issues in information security.	10M	2	L2
OR				
14	What are the Legal issues in information security and Acts related to information technology?	10M	2	L2
15	How do you distinguish between qualitative risk assessment techniques and quantitative risk assessment techniques?	10M	3	L2
OR				
16	What is the difference between risk management and risk identification?	10M	3	L2

17	What is the difference between public key cryptography and public key infrastructure?	10M	4	L2
	OR			
18	Explain about the information systems security certification and accreditation.	10M	4	L2
19	Explain different types of security management.	10M	5	L2
	OR			
20	Explain about the access controls used with a firewall.	10M	5	L2