R20 Regulation *Subject code:3P7EB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Regular/Supplementary Examinations, December 2024

INFORMATION SECURITY

(CSE)

Maximum Marks: 70 Date:30.12.2024 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	Differentiate between software failure and Hardware failure?	1	2
2	List the deviations in Quality of Service?	1	1
3	Enumerate the International Laws and Legal Bodies.	2	1
4	Define information security planning.	2	1
5	Differentiate risk identification and risk control.	3	2
6	What is risk management?	3	1
7	Write short notes on work break down structure.	4	1
8	What is the difference between private key and public key?	4	2
9	Write short notes on Continuous Assessment in information security?	5	1
10	Define network monitoring?	5	1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Analyze the components and relationships within the CNSS security model. [10M]	1	3
	OR		
12	Illustrate Components of an Information System? [10M]	1	3
13	Outline Continuity Strategies in information security planning and governance. [10M]	2	4
	OR		
14	Analyze the best practices to implement security policy in an organization? [10M]	2	4
15	Classify the risk control measures that impact an organization's risk profile? [10M]	3	4
	OR		
16	How can you differentiate between quantitative and qualitative risk management practices? [10M]	3	4

17	Explain Early Codes, More Modern Codes in encryption. [10M]	4	4
	OR		
18	List and describe the three major steps in executing the project plan. [10M]	4	4
19	A) Investigate the roles of firewalls and Virtual Private Networks (VPNs) in securing network communications. [5M] B) Analyze potential vulnerabilities and the impact of misconfigurations. [5M]	5 5	4 4
	OR		
20	Examine the definition of digital forensics and critically analyze the various methodologies employed in the field. [10M]	5	4