



R20 Regulation

Subject code: 3P7EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

INFORMATION SECURITY

(CSE)

Maximum Marks: 70

Date: 26.11.2025

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 security? | 2M | 1 | L1 |
| 2 | What are the Components of an Information System? | 2M | 1 | L1 |
| 3 | How can you educate about information security in professional organization? | 2M | 2 | L1 |
| 4 | Define information security governance. | 2M | 2 | L1 |
| 5 | What is the difference between risk appetite and risk tolerance. | 2M | 3 | L1 |
| 6 | What is threat assessment? | 2M | 3 | L1 |
| 7 | What is revocation? | 2M | 4 | L1 |
| 8 | What is cross certification? | 2M | 4 | L1 |
| 9 | What is Gap analysis? | 2M | 5 | L1 |
| 10 | Define configuration management? | 2M | 5 | L1 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | Marks | CO | BTL |
|---|---|-------|----|-----|
| 11 | Apply the concept of security to real-world situations and explain its necessity? | 10M | 1 | L2 |
| OR | | | | |
| 12 | Apply your understanding to identify failures and address potential errors in a system? | 10M | 1 | L2 |
| 13 | Design an information security planning and governance framework for an organization? | 10M | 2 | L2 |
| OR | | | | |
| 14 | Analyse and explain Information Security Blueprint and Security Education. | 10M | 2 | L2 |
| 15 | Write common challenges in implementing risk control practices. | 10M | 3 | L2 |
| OR | | | | |

| | | | | |
|----|--|-----|---|----|
| 16 | Classify the risk control measures that impact an organization's risk profile? | 10M | 3 | L2 |
| 17 | Discuss some common applications of symmetric-key cryptography. | 10M | 4 | L2 |
| | OR | | | |
| 18 | List and describe the three major steps in executing the project plan. | 10M | 4 | L2 |
| 19 | What are Digital Forensics? Explain in detail about digital forensics process. | 10M | 5 | L2 |
| | OR | | | |
| 20 | Examine the functionality of Intrusion Detection and Prevention Systems. How do IDPS contribute to proactive and reactive security measures? | 10M | 5 | L2 |