*R20 Regulation* *Subject code: 3P7EB*

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

**B.Tech VII Semester Supplementary Examinations, October 2026**

## INFORMATION SECURITY

*(CSE)*

***Maximum Marks: 70*** Date: 28.10.2026 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 | What are the Components of an Information System? | 2M | 1 | L1 |
| 3 | List the Legal, Ethical, and Professional Issues in Information Security. | 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 | Write short notes on work break down structure. | 2M | 4 | L1 |
| 8 | What do you mean by role separation in IS? | 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 | Illustrate Components of an Information System? | 10M | 1 | L2 |
| | OR | | | |
| 12 | Analyze the components and relationships within the CNSS security model. | 10M | 1 | L2 |
| 13 | Design an information security planning and governance framework for an organization? | 10M | 2 | L2 |
| | OR | | | |
| 14 | Implement and assess the effectiveness of code of ethics in a professional organization? | 10M | 2 | L2 |
| 15 | Criticize 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 | Explain Early Codes, More Modern Codes in encryption. | 10M | 4 | L2 |

| | | | | |
|---|---|---|---|---|
| | OR | | | |
| 18 | Examine the various categories of constraints that impact the implementation of project plans. | 10M | 4 | L2 |
| 19 | What is Digital Forensics? Explain in detail about digital forensics process. | 10M | 5 | L2 |
| | OR | | | |
| 20 | Describe how the various types of firewalls interact with network traffic at various levels of the OSI model. | 10M | 5 | L2 |