

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. III Year I Semester Regular Examinations December-2025

PRINCIPLES OF CYBER SECURITY

CSE (Internet of Things and Cyber security including Block Chain Technology)

Time: 3 Hours

Max. Marks: 70

PART-A

(Answer all the Questions 10 x 2 = 20 Marks)

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|---|---|--|-----|----|----|
| 1 | a | What are Cyber Crimes and How these crimes can be minimized? | CO1 | L1 | 2M |
| | b | List out few roles of Cyber Threats. | CO1 | L1 | 2M |
| | c | Mention any two cybercrimes commonly associated with cyber cafes. | CO2 | L1 | 2M |
| | d | What is an attack vector in cyber offenses? | CO2 | L2 | 2M |
| | e | What are two major security challenges posed by mobile devices? | CO3 | L1 | 2M |
| | f | What is the significance of registry settings in mobile device security? | CO3 | L1 | 2M |
| | g | What is meant by keyloggers? | CO4 | L1 | 2M |
| | h | Differentiate between a virus and a worm. | CO4 | L1 | 2M |
| | i | Mention two security risks of social media marketing for organizations. | CO5 | L1 | 2M |
| | j | What is the cost of cybercrime to an organization? | CO5 | L2 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

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|---|---|--|-----|----|----|
| 2 | a | Summarize about cybercrime in "the legal perspective" | CO1 | L1 | 5M |
| | b | Summarize about cybercrime in "the Indian perspective" | CO1 | L1 | 5M |

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| 3 | | Explain about Information Security Management in detail. | CO1 | L1 | 10M |
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UNIT-II

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| 4 | a | What are CTI and its types? | CO2 | L2 | 5M |
| | b | Explain Malware and Phishing. | CO2 | L6 | 5M |

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| 5 | | Distinguish between Risks, Threats and Vulnerabilities. | CO2 | L4 | 10M |
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UNIT-III

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| 6 | | Explain the categories of Incidents in Cyber security. | CO3 | L2 | 10M |
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| 7 | | Explain Identity and access Management in Cyber security. | CO3 | L6 | 10M |
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UNIT-IV

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|---|--|--|-----|----|-----|
| 8 | | Explain in detail Monitoring Tools and Appliances. | CO4 | L5 | 10M |
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| 9 | | Difference between vulnerability management and vulnerability assessment. | CO4 | L3 | 10M |
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UNIT-V

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| 10 | | What is System Hardening? Explain it in detail. | CO5 | L2 | 10M |
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| 11 | a | What is Metasploit? | CO5 | L4 | 5M |
| | b | What are the Inferences of Digital Signature in Cyber security? | CO5 | L6 | 5M |

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