

Reg. No: 

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

**B.Tech III Year I Semester Regular Examinations March-2023**  
**PRINCIPLES OF CYBER SECURITY**

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

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- |     |   |     |    |    |
|-----|---|-----|----|----|
| 1 a | Discuss about the Global perspective of Cyber Crime.  | CO1 | L1 | 6M |
| b   | Summarize about cybercrime in “the legal perspective” | CO1 | L2 | 6M |

OR

- |     |  |     |    |    |
|-----|--|-----|----|----|
| 2 a | Discuss and Elaborate about Cybercrime and its related security measures.  | CO1 | L4 | 6M |
| b   | Who are Cyber Criminals and what kind of harms related to cyber criminals. | CO1 | L1 | 6M |

**UNIT-II**

- |     |  |     |    |    |
|-----|--|-----|----|----|
| 3 a | Explain Malware and Phishing.                | CO2 | L2 | 6M |
| b   | What is Vulnerability? Explain it in detail. | CO2 | L2 | 6M |

OR

- |     |  |     |    |    |
|-----|--|-----|----|----|
| 4 a | Explain Information Security Life cycle in detail. | CO2 | L1 | 6M |
| b   | What is Risk management in Cyber Security?         | CO2 | L2 | 6M |

**UNIT-III**

- |     |   |     |    |    |
|-----|---|-----|----|----|
| 5 a | Explain about Incident Response and Recovery.     | CO3 | L1 | 6M |
| b   | What are the different types of digital security? | CO3 | L2 | 6M |

OR

- |     |   |     |    |    |
|-----|---|-----|----|----|
| 6 a | Difference Between Digital Information Security and Cyber Security. | CO3 | L2 | 6M |
| b   | Discuss the ports and Protocols in Cyber security.                  | CO3 | L2 | 6M |

**UNIT-IV**

- |     |  |     |    |    |
|-----|--|-----|----|----|
| 7 a | Explain the classification of Cyber Threats. | CO4 | L2 | 6M |
| b   | What are security Logs and alerts?           | CO4 | L2 | 6M |

OR

- |     |  |     |    |    |
|-----|--|-----|----|----|
| 8 a | Discuss about packet capture analysis.             | CO4 | L2 | 6M |
| b   | Explain in detail Monitoring Tools and Appliances. | CO4 | L5 | 6M |

**UNIT-V**

- |     |   |     |    |    |
|-----|---|-----|----|----|
| 9 a | What are Backdoor Trojans? Explain in detail. | CO5 | L5 | 6M |
| b   | Explain Ransomware Attack in Brief.           | CO5 | L5 | 6M |

OR

- |      |   |     |    |    |
|------|---|-----|----|----|
| 10 a | What are the Inferences of Digital Signature in Cyber security. | CO5 | L6 | 6M |
| b    | Brief study on Hardening of operating system.                   | CO5 | L6 | 6M |

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(Answer all Five Units 2 x 12 = 60 Marks)

UNIT-I

- 1 a) Discuss about the Global perspective of Cyber Crime. (CO1 L1 6M)
- b) Summarize about cyber crime in "the legal perspective". (CO1 L2 6M)
- OR
- 2 a) Discuss and Elaborate about Cybercrime and its related security measures. (CO1 L4 6M)
- b) Who are Cyber Criminals and what kind of harms related to cyber criminals. (CO1 L1 6M)

UNIT-II

- 3 a) Explain malware and phishing. (CO2 L2 6M)
- b) What is "ransomware"? Explain it in detail. (CO2 L2 6M)
- OR
- 4 a) Explain Information security life cycle in detail. (CO2 L1 6M)
- b) What is Risk management in Cyber security? (CO2 L2 6M)

UNIT-III

- 5 a) Explain about Incident Response and Recovery. (CO3 L1 6M)
- b) What are the different types of digital security? (CO3 L2 6M)
- OR
- 6 a) Differentiate between Digital Information security and Cyber security. (CO3 L2 6M)
- b) Discuss the ports and protocols in Cyber security. (CO3 L2 6M)

UNIT-IV

- 7 a) Explain the classification of Cyber Threats. (CO4 L1 6M)
- b) What are security logs and alerts? (CO4 L2 6M)
- OR
- 8 a) Discuss about packet capture analysis. (CO4 L2 6M)
- b) Explain in detail Monitoring Tools and Appliances. (CO4 L2 6M)

UNIT-V

- 9 a) What are Backdoor Trojans? Explain in detail. (CO5 L2 6M)
- b) Explain Ransomware Attack in brief. (CO5 L2 6M)
- OR
- 10 a) What are the Intferences of Digital Signature in Cyber security. (CO5 L6 6M)
- b) Brief study on hardening of operating system. (CO5 L6 6M)

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