

Basavarajeswari Group of Institutions

**BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
 (Autonomous Institute under Visvesvaraya Technological University, Belagavi)

**2022 SCHEME**

USN 

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Course Code 

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First/Second Semester B.E. Degree Summer Semester Examinations, September/October 2025

## INTRODUCTION TO CYBER SECURITY

Duration: 3 hrs

Max. Marks: 100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Missing data, if any, may be suitably assumed

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO:PI)</u>
<b><u>Module-1</u></b>			
1.	a. Explain the following: (i) cyber space                                      (ii) cybersquatting (iii) cyber security                                (iv) cyber terrorism b. Who are cybercriminals? List s activities involved in cybercrime. c. What are pornographic offences? Explain how paedophiles operate.	07    07  06	(2 :1: 1.6.1)    (2: 1: 1.6.1)  (2:1: 1.6.1)
(OR)			
2.	a. Explain the cybercrimes against property and society. b. Describe the cybercrime and the Indian ITA 2000.	10  10	(2:1: 1.6.1)  (2 :1: 1.6.1)
<b><u>Module-2</u></b>			
3.	a. Describe the categories of vulnerabilities that hackers typically search for. b. What is passive reconnaissance and active reconnaissance? Describe five tools for each category. c. What is social engineering? Explain human based social engineering.	07  07  06	(2 :2: 1.6.1)  (2 :2: 1.6.1)  (2 :2: 1.6.1)
(OR)			
4.	a. What is cyberstalking? Explain types of Stalkers, and list steps of how stalking works? b. What is attack vector and zero-day attack? Explain how most of them are launched.	10  10	(2 :2: 1.6.1)  (2 :2: 1.6.1)
<b><u>Module-3</u></b>			
5.	a. What is proxy server and anonymizer? List the purpose of a proxy server. b. What is phishing? Explain how it works. c. What are key loggers? Explain differ types of key loggers.	07  07  06	(2 :3: 1.6.1)  (2 :3: 1.6.1)  (2 :3: 1.6.1)
(OR)			
6.	a. What are Trojan horses? Describe the threats posed by Trojans. b. With neat diagrams explain the 3 different ways in which virus spread	07  07	(2 :3: 1.6.1)  (2 :3: 1.6.1)

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|--|----|--|-----------|----------------------|
|  | c. | Define steganography. Explain with a neat diagram how steganography works. | <b>06</b> | <b>(2 :3: 1.6.1)</b> |
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#### **Module-4**

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|----|----|---|-----------|----------------------|
| 7. | a. | Explain the methods of phishing.                                  | <b>07</b> | <b>(2 :4: 1.6.1)</b> |
|    | b. | Discuss the different phishing techniques.                        | <b>07</b> | <b>(2 :4: 1.6.1)</b> |
|    | c. | Give counter measures to avoid being a victim of phishing attack. | <b>06</b> | <b>(2 :4: 1.6.1)</b> |

**(OR)**

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|----|----|--|-----------|----------------------|
| 8. | a. | Explain the different types of identity theft.   | <b>07</b> | <b>(2 :4: 1.6.1)</b> |
|    | b. | Explain the ID theft techniques.                 | <b>07</b> | <b>(2 :4: 1.6.1)</b> |
|    | c. | How to prevent being a victim of identity theft? | <b>06</b> | <b>(2 :4: 1.6.1)</b> |

#### **Module-5**

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|----|----|---|-----------|----------------------|
| 9. | a. | Discuss the need for concept of computer forensics. | <b>10</b> | <b>(2 :5: 1.6.1)</b> |
|    | b. | Explain the rules of evidence.                      | <b>10</b> | <b>(2 :5: 1.6.1)</b> |

**(OR)**

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|-----|----|--|-----------|----------------------|
| 10. | a. | Explain the digital forensic life cycle with neat diagram. | <b>10</b> | <b>(2 :5: 1.6.1)</b> |
|     | b. | What are the types of common digital analysis?             | <b>10</b> | <b>(2 :5: 1.6.1)</b> |

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