

Basavarajeswari Group of Institutions
BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT
 (Autonomous Institute under Visvesvaraya Technological University, Belagavi)

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Course Code

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Fifth Semester B.E. Degree Examinations, April/May 2024

CYBER SECURITY

(Common to CSE & AIML)

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>(RBTLCO:PI)</u>
<u>Module-1</u>			
1.	a. Define cybercrime and cybercriminals. Explain the various categories of cybercrimes in detail.	06	(1 : 1 : 1.2.1)
	b. Explain cyber defamation with necessary IPC section.	04	(2 : 1 : 1.2.1)
	c. Explain (i) Industrial Spying (ii) Hacking (iii) Pornographic Offences (iv) Salami Attack (v) Online Frauds	10	(2 : 1 : 1.2.1)
(OR)			
2.	a. Write a short note on software piracy.	05	(1 : 1 : 1.2.1)
	b. Explain hacking and Indian laws with necessary sections.	10	(2 : 1 : 1.2.1)
	c. Explain global perspective on cybercrimes.	05	(2 : 1 : 1.2.1)
<u>Module-2</u>			
3.	a. Explain in detail with a neat sketch of a network scenario and its vulnerabilities for attack.	08	(2 : 2 : 1.2.1)
	b. Define active attacks and passive stacks. Explain how they differ from each other.	06	(2 : 2 : 1.2.1)
	c. Define social engineering and explain shoulder surfing.	06	(1 : 2 : 1.2.1)
(OR)			
4.	a. Explain various types of stalkers and its working.	06	(2 : 2 : 1.2.1)
	b. Explain how cybercriminals prefer cybercafes to exploit users.	06	(2 : 2 : 1.2.1)
	c. Define botnets and explain why botnets are fuelling cybercrime with necessary sketches.	08	(1 : 2 : 1.2.1)
<u>Module-3</u>			
5.	a. Compare and contrast proxy servers with anonymizers.	04	(2 : 3 : 1.2.1)
	b. Explain (i) Phishing (ii) Password cracking (iii) Online attacks (iv) Offline attacks (v) Random Passwords	10	(2 : 3 : 1.2.1)
	c. What are hardware key loggers and anti-key loggers? List the advantages of using anti-key loggers.	06	(1 : 3 : 1.2.1)
(OR)			

Note: (RBTLC - Revised Bloom's Taxonomy Level: CO - Course Outcome: PI- Performance Indicator)

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| 6. | a. Explain with a neat sketch how
(i) virus can spread through internet
(ii) virus can spread through local networks | 08 | (2 :3 : 1.2.1) |
| b. | Explain various attacks on wireless networks. | 06 | (2 :3 : 1.2.1) |
| c. | Explain with a neat sketch, how steganography works? | 06 | (2 :3 : 1.2.1) |

Module-4

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| 7. | a. Explain the methods used by the phishers to reveal users personal information on the internet. | 06 | (2 :4 : 1.2.1) |
| b. | Explain the techniques used by phishers to launch phishing attacks. | 06 | (2 :4 : 1.2.1) |
| c. | Explain in detail phishing attack with a neat flowchart. | 08 | (2 :4 : 1.2.1) |

(OR)

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| 8. | a. Explain SPS algorithm to prevent phishing attacks. | 08 | (2 :4 : 1.2.1) |
| b. | What do you mean by identity theft & explain types of Identity theft. | 06 | (2 :4 : 1.2.1) |
| c. | Explain the techniques by which Identity theft is carried out. | 06 | (2 :4 : 1.2.1) |

Module-5

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| 9. | a. Define digital forensics & explain its role in cybercrimes. | 04 | (2 :5 : 1.2.1) |
| b. | Explain the various contexts & its process how a digital evidence is identified with a neat sketch. | 08 | (2 :5 : 1.2.1) |
| c. | Explain the process model with respect to seizure & handling evidence with a neat sketch. | 08 | (2 :5 : 1.2.1) |

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| 10 | a. Explain the phases of computer forensics (i) Examination/Investigation
(ii) Testing | 04 | (2 :5 : 1.2.1) |
| b. | Explain the precautions to be taken when collecting electronic evidence. | 08 | (2 :5 : 1.2.1) |
| c. | Explain chain of custody concept with neat sketches. | 08 | (2 :5 : 1.2.1) |

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