



## P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

**Eighth Semester, B.E. - Computer Science and Engineering**

**Semester End Examination; May/June - 2018**

**Cyber Security**

*Time: 3 hrs*

*Max. Marks: 100*

*Note: Answer FIVE full questions, selecting ONE full question from each unit.*

### UNIT - I

- |      |  |   |
|------|--|---|
| 1 a. | How do we classify cyber crimes? Explain each one briefly.                                       | 8 |
|      | b. Write a short note on cyber crime and information security.                                   | 6 |
|      | c. Discuss about global perspective on cyber crimes.   | 6 |
| 2 a. | What is cyber stalking? Explain how stalking works?  | 7 |
|      | b. What are the different attacks launched with attack vector? Explain.                          | 7 |
|      | c. What are the risks associated with cloud computing environment? How to remediate those risks? | 6 |

### UNIT - II

- |      |  |   |
|------|--|---|
| 3 a. | Discuss about the types and techniques of credit card frauds.  | 6 |
|      | b. Write a note on how authentication service security is achieved in mobile computing?                            | 8 |
|      | c. What are the operating guidelines for implementing mobile security policies?                                    | 6 |
| 4 a. | What are the different phases during the attack on the network? Explain.   | 6 |
|      | b. Write a note on Trojan horses and backdoors. What are the steps to be followed to protect the system from them? | 8 |
|      | c. Differentiate between steganography and cryptography.   | 6 |

### UNIT - III

- |      |   |   |
|------|---|---|
| 5 a. | What is phishing? Explain with example.                                       | 5 |
|      | b. What are the types of phishing scams? Explain.                             | 8 |
|      | c. What are the different types of ID theft? Explain.                         | 7 |
| 6 a. | Discuss the positive and negative aspects of ITA 2000.                        | 7 |
|      | b. Describe the specific challenges that exist in India.                      | 7 |
|      | c. Write a short note on digital signature in relevance to the Indian IT act. | 6 |

### UNIT - IV

- |      |   |   |
|------|---|---|
| 7 a. | Write a short note on cyber forensics and digital evidence.   | 6 |
|      | b. Explain the process involved in the digital forensics life cycle.  | 8 |
|      | c. What are the typical elements needs to be addressed in a forensics investigation engagement contract? Explain. | 6 |

- 8 a. Explain how OSI-7 layer model is relevant in computer forensics? 7
- b. What is a social networking site? What are the security threats that can emanate from social networking sites? 6
- c. Explain the complexity and quantity problems faced in digital forensics investigation. 7

**UNIT - V**

- 9 a. Explain the different tool kit for handheld device for forensics. 8
- b. Write a short note on digital forensics in handheld devices. 6
- c. Explain the key organizational guidelines on cell phone forensics. 6
- 10 a. Discuss about the cost of cyber crimes in an organization. 6
- b. Write a note on web threats for organizations. 8
- c. Discuss about organizational guidelines for internet usage, safe computing guidelines and computer usage policy. 6

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