

**P.E.S. College of Engineering, Mandya - 571 401***(An Autonomous Institution affiliated to VTU, Belagavi)***Seventh Semester, B.E. - Computer Science and Engineering****Semester End Examination; February - 2022****Cyber Security**

Time: 3 hrs

Max. Marks: 100

Course Outcomes*The Students will be able to:**CO1: To identify and describe the major types of cybercrime.**CO2: Applying knowledge in the field of cyber security to analyze real world problems.**CO3: Understand the legal perspectives in cyber security and challenges to Indian law.**CO4: Describe the cybercrime vulnerabilities, exploitations of the Internet & appropriate responses to cybercriminal activity.**CO5: Effectively integrating knowledge in the field of cyber security to propose solutions to real world problems.***Note: I) PART - A is compulsory. Two marks for each question.****II) PART - B: Answer any Two sub questions (from a, b, c) for Maximum of 18 marks from each unit.**

Q. No.	Questions	Marks	BLs	COs	POs
I : PART - A		10			
I a.	What is Social Engineering?	2	L1	CO1	PO1
b.	What is the difference between a Virus and a Worm?	2	L3	CO2	PO1
c.	Differentiate between Spam and Hoax mails.	2	L1	CO3	PO2
d.	What are Root kits? Why are they dangerous?	2	L1	CO4	PO1
e.	What is an IMEI number? How does it work to trace a cell phone?	2	L1	CO5	PO4
II : PART - B		90			
UNIT - I		18			
1 a.	List and explain different types of cyber criminals.	9	L1,2	CO1	PO1
b.	How do we classify cybercrimes? Explain each one briefly.	9	L3	CO1	PO1
c.	Explain the different attack launched with attack vector.	9	L2	CO1	PO2
UNIT - II		18			
2 a.	Explain types of attack against 3G mobile networks.	9	L2	CO2	PO1
b.	Explain the techniques of credit card frauds.	9	L2	CO2	PO2
c.	List and explain different types of viruses.	9	L2	CO2	PO4
UNIT - III		18			
3 a.	What is identity theft? Explain different type of identity theft.	9	L1,2	CO3	PO2
b.	Explain the counter measures to prevent being victim of identity theft.	9	L2	CO3	PO1
c.	Explain the positive aspects of the ITA 2000.	9	L2	CO3	PO1

UNIT - IV**18**

- | | | | | |
|---|---|----|-----|-----|
| 4 a. Explain the typical elements addressed in a forensics investigation engagement contract. | 9 | L2 | CO4 | PO2 |
| b. Explain the steps to be performed in solving computer forensics case. | 9 | L3 | CO4 | PO4 |
| c. Describe the steps taken by attacker to hack networks. | 9 | L2 | CO4 | PO4 |

UNIT - V**18**

- | | | | | |
|---|---|----|-----|-----|
| 5 a. Explain the different toolkits for hand held device forensics. | 9 | L2 | CO5 | PO4 |
| b. Explain the organizational guidelines on cell phone forensics. | 9 | L2 | CO5 | PO5 |
| c. Describe web threats for organization. | 9 | L2 | CO5 | PO5 |

* * * *