



**B.E/B.TECH. DEGREE EXAMINATIONS: NOV/DEC 2023**

(Regulation 2018)

Sixth Semester

**COMMON TO ALL BRANCHES**

U18CSR6214: Cyber Forensics

**COURSE OUTCOMES**

**CO1:** Apply security principles in the application layer

**CO2:** Explain computer forensics

**CO3:** Use forensics tools

**CO4:** Analyze and validate forensics data

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions: -**

**PART A (10 x 2 = 20 Marks)**

**(Answer not more than 40 words)**

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|---|-----|-------------------|
| 1. Define the goal of cyber forensics.  | CO1 | [K <sub>1</sub> ] |
| 2. Show how a computer is used to commit a crime?   | CO1 | [K <sub>2</sub> ] |
| 3. Define digital forensics.  | CO2 | [K <sub>1</sub> ] |
| 4. Outline the sub-branches involved in digital forensics.  | CO2 | [K <sub>2</sub> ] |
| 5. Summarize the considerations to be keep in mind while refining and modifying the investigation plan. | CO3 | [K <sub>2</sub> ] |
| 6. List date hiding technique in file manipulation.   | CO3 | [K <sub>1</sub> ] |
| 7. Show various items stored in mobile phone.   | CO4 | [K <sub>2</sub> ] |
| 8. List few mobile forensics tools.   | CO4 | [K <sub>1</sub> ] |
| 9. Identify the examples of computer forensics activities.  | CO1 | [K <sub>3</sub> ] |
| 10. Recall who uses computer forensics?   | CO1 | [K <sub>2</sub> ] |

**Answer any FIVE Questions: -**

**PART B (5 x 16 = 80 Marks)**

**(Answer not more than 400 words)**

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|--|---|-----|-------------------|
| 11. a) Explain about type of cybercrime with suitable examples.  | 8 | CO1 | [K <sub>2</sub> ] |
| b) What is identity theft? How do you know if your identity was stolen? How does identify theft happens? | 8 | CO1 | [K <sub>2</sub> ] |

12.	a)	Explain type of cyber forensics.	8	CO1	[K <sub>2</sub> ]
	b)	Identify incident response methodology in eradication of windows system.	8	CO1	[K <sub>3</sub> ]
13.	a)	Explain the characteristics of digital evidence.	8	CO2	[K <sub>2</sub> ]
	b)	Summarize the guidelines for processing an incident or crime scene.	8	CO2	[K <sub>2</sub> ]
14.	a)	Explain about the process of bit shifting with an example.	8	CO3	[K <sub>2</sub> ]
	b)	Identify and discuss about various password recovery technique and mention few tools names of it.	8	CO3	[K <sub>3</sub> ]
15.	a)	Explain main components used in mobile communication.	8	CO4	[K <sub>2</sub> ]
	b)	Recall about the acquisition procedures for cell phones and mobile devices.	8	CO4	[K <sub>2</sub> ]
16.	a)	Illustrate FAT file system and discuss about its fields.	8	CO2	[K <sub>2</sub> ]
	b)	Explain about windows registry HKEYs and their functions.	8	CO2	[K <sub>2</sub> ]

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