**20CB701/PE**

**Hall Ticket Number:**

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| **IV/IV B.Tech (Regular) DEGREE EXAMINATION** | | | |
| **December, 2023** | **Cyber Security** | | |
| **Seventh Semester** | **Cyber Crime Investigation and Digital Forensics** | | |
| **Time:** Three Hours | | **Maximum: 7**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (14X1 = 14 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X14=56 Marks) |

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| 1. | a) | Define Digital Forensics | CO1 | L2 | 1M |
|  | b) | Name four Cyber Crimes. | CO1 | L1 | 1M |
|  | c) | What is Locard’s principle? | CO1 | L1 | 1M |
|  | d) | Mention four forensics evidence sources | CO1 | L2 | 1M |
|  | e) | What are volatile, non-volatile information’s? | CO2 | L3 | 1M |
|  | f) | What are sector, clusters of a HDD? | CO2 | L2 | 1M |
|  | g) | What is Passware kit? | CO2 | L2 | 1M |
|  | h) | What are the different modes in which a 802.11 wireless card can operate in? | CO3 | L2 | 1M |
|  | i) | Write the 4 TCP/IP layers. | CO3 | L1 | 1M |
|  | j) | What is a super node? | CO3 | L2 | 1M |
|  | k) | Define host in computer networks. | CO3 | L2 | 1M |
|  | l) | What are the three components of email message? | CO4 | L2 | 1M |
|  | m) | Expand POP3, IMAP | CO4 | L2 | 1M |
|  | n) | What are the three main categories of mobile communications? | CO4 | L2 | 1M |
| **Unit -I** | | | | | |
| 2. | a) | What are the uses and objectives of computer forensics? | CO1 | L2 | 7M |
|  | b) | Write in detail about forensics readiness. | CO1 | L3 | 7M |
| **(OR)** | | | | | |
| 3. | a) | Draw computer investigation model and explain | CO1 | L2 | 7M |
|  | b) | Explain digital evidence. | CO1 | L1 | 7M |
| **Unit -II** | | | | | |
| 4. | a) | How you recover deleted files, partitions in Windows? | CO2 | L3 | 7M |
|  | b) | Explain Windows log file with diagrams | CO2 | L4 | 7M |
| **(OR)** | | | | | |
| 5. | a) | Name password cracking methods, and explain | CO2 | L1 | 7M |
|  | b) | What are slack space, swap space, file carving? | CO2 | L3 | 7M |
| **Unit -III** | | | | | |
| 6. | a) | Write about network components and their forensic importance. | CO3 | L4 | 7M |
|  | b) | With neat diagrams, explain OSI, TCP/IP layers. | CO3 | L2 | 7M |
| **(OR)** | | | | | |
| 7. | a) | What is wireless fidelity? explain tools used with it. | CO3 | L1 | 7M |
|  | b) | Write in detail about wireless security. | CO3 | L2 | 7M |
| **Unit -IV** | | | | | |
| 8. | a) | With a clean diagram explain the technology in emails and how it works? | CO4 | L1 | 7M |
|  | b) | What are email attacks and crimes? | CO4 | L3 | 7M |
| **(OR)** | | | | | |
| 9. | a) | Write about mobile communications and evidences in a mobile device. | CO4 | L2 | 7M |
|  | b) | Explain mobile forensic process. | CO4 | L3 | 7M |

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