

## Mid Semester Examination

Oct 2023

### CET4033B - Digital Forensics and Investigation

Schedule ID: 21584

Faculty/School	Faculty of Engineering and Technology	Term	Semester V
Program	TY BTech CSF	Duration	1 Hours 30 Minutes
Specialization		Max. Marks	50

#### Instructions to the Candidate:

1. Write the PRN on the top right-hand corner of the question paper.
2. Draw neat diagrams.
3. Assume suitable data, if necessary.
4. Solve any 5 questions.

#### Section 1 (5 X 10 Marks)

Answer any 5 questions

1	<p>a) Complete the following sentences. (each carry 1 mark)</p> <p>i. Direct evidence establishes a _____.</p> <p>ii. Modus Operandi (MO) is a Latin term that means _____.</p> <p>iii. All cybercrimes can be addressed using existing laws. TRUE/FALSE.</p> <p>iv. Forensic examination and forensic analysis are separate processes. YES/NO.</p> <p>v. Motive reflects _____ that the crimes were committed.</p> <p>b) What is Forensic Science? What are basic principles of Forensic Science? <i>SEP C OPL</i></p>	10 marks	CO1	Remembering
2	<p>a) Prove that Time and Location are the key pieces of information and play important role in the process of investigating Alibi.</p> <p>b) What roles can computers play in a crime? Explain with example.</p>	10 marks	CO1, CO2	Understanding
3	<p>a) What are the main challenges of investigating computer-related crimes?</p> <p>b) Write the Forensic analysis process. Also state the different specialization of Digital Forensics.</p> <p><i>Neharika, Harsh, Ashish, Malween</i></p>	10 marks	CO1, CO2	Applying



4	<p>a) What are different challenges of Digital Evidence? Explain with examples.</p> <p>b) What is Input validation. How will you do it?</p>	10 marks	CO1, CO2	Understanding
5	<p>a) Establish connection between victims, offenders and crime scenes with the help of diagram. State the principles of digital evidence. <i>FREE CORE</i></p> <p>b) Why there is a need to have chain of custody for Digital evidence? Write a typical form of template to represent the same.</p>	10 marks	CO1, CO2	Analysing
6	<p>a) Justify importance and functions of modus operandi.</p> <p>b) State digital evidence. How embedded system can be a digital evidence?</p>	10 marks	CO1, CO2	Understanding

END OF QUESTION PAPER