Digital Forensics 2

(SPY 2010)

Assignment 2

Submitted By-

Your Name
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Submitted To-

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Instructions:

- *The assignment must be handwritten.*
- *Use A4 papers to write the assignment.*
- *Draw diagrams wherever relevant. Explain your notations explicitly and clearly.*
- *An incomplete assignment is NOT acceptable for submission.*
- *Arrange all the papers of your assignment into a file to submit.*
- *Once you submit your assignment, you will be expected to answer all the questions there INDEPENDENTLY. You may be asked to answer any question of the assignment in class.*

Q1. Describe the challenges of conducting forensic investigations in cloud environments. How do forensic processes differ in Infrastructure as a Service (IaaS) vs Software as a Service (SaaS) models?

Q2. What are the major steps involved in performing a forensic analysis of a mobile device? Discuss the limitations that forensic investigators face when handling encrypted or locked mobile phones.

Q3. Explain what Industrial Control Systems (ICS) are. What makes forensic investigations in ICS environments different from traditional IT forensics?

Q4. Identify and briefly describe three emerging trends or challenges in the field of cyber forensics. How are these trends shaping the future of investigations?

Q5. Choose a real-world cybercrime case and analyze it from a forensic perspective. Discuss the digital forensic techniques used, challenges faced during the investigation, and the outcome of the case.