



Air University
Mid Semester Examinations: Fall 2025

Student ID: **231295**

Subjective Part
(To be solved on Answer Books only)

Subject: Digital Forensics
Class: BSCYS-F-23
Section(s): A + B
Course Code: CY-334

Time Allowed: 120 Minutes
Max Marks: 50
FM's Name: Hassan Iftikhar
FM's Signature:

INSTRUCTIONS

- Attempt responses on the answer book only.
- Nothing is to be written on the question paper.
- Rough work or writing on question paper will be considered as use of unfair means.
- Tables / calculators are allowed / not allowed.

Q 1	CLO 01	Domain: Understanding	Marks 24
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You are part of digital forensics team investigating corporate incident:

- 1. What immediate steps would you take before initiating the acquisition to ensure evidence is preserved and properly documented? (8 Marks)**
- 2. Explain how you would decide between performing a live acquisition or powering down for dead imaging, and justify your choice technically and legally? (8 Marks)**
- 3. Explain how you would approach the acquisition, what tools you might use, and how you would maintain the integrity of the data? (8 Marks)**

Q2	CLO 02	Domain: Analysis	Marks 17
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As digital forensic manager you receive multiple evidence hard drives from a corporate fraud investigation. A senior executive insists on accessing a copy of the evidence immediately for "internal review." Moreover they are requesting for immediate submission of forensic analysis report.

- 1. How would you handle this request while maintaining chain of custody, confidentiality, and compliance with forensic procedures? (9 Marks)**
- 2. What will be your strategy to submit the forensic reports while maintaining the integrity and quality of forensic analysis? (8 Marks)**

Q3

CLO 03

Domain: File Structure

Marks 9

Explain the following:

1. What is the purpose of the Master Boot Record (MBR) in digital forensics analysis? (3 Mark)
2. Differentiate between logical acquisition and physical acquisition of a disk. (3 Marks)
3. What information can a forensic analyst obtain from file system metadata? (3 Marks)