

**BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF COMPUTING AND COMMUNICATION STUDIES
CYBER SECURITY PROGRAMME**

B. SC. DEGREE, FIRST SEMESTER, SESSION: 2023/2024

COURSE TITLE: INTRODUCTION TO DIGITAL FORENSICS

COURSE CODE: CYB205 TIME ALLOWED: 2 hours COURSE CREDIT: 2

Attempt any 4 questions. Use diagrams where necessary. (each two-part question is 20 marks).

1. a.) With the aid of suitable examples, provide two main differences between civil and criminal cases
b.) What is the Locard principle and how does it impact the role of a Digital Forensic Investigator
2. a.) Define Digital Forensic Investigation and then state four procedural principles that are commonly applied to digital forensic investigations.
b.) List or describe the general tasks performed by a file-system such as NTFS.
3. a.) List the six stages/processes involved in a Digital Forensic Investigation
b.) With the aid of suitable examples, discuss the process of identification of digital evidence and/or sources of evidence
4. a.) As a Digital Forensic Investigator, describe how you intent to process and recover digital evidence related to a financial fraud civil case against Mr. Mario from two storage media of a CD-ROM disk and a USB flash drive. Hint: state all assumptions
b.) With the aid of suitable examples, discuss the process of collection and transportation of digital evidence and/or sources of evidence
5. a.) As a Digital Forensic Investigator, describe how you intent to process and recover digital evidence related to theft of intellectual property civil case against Mr. Rossi from a switched off laptop. Hint: state all assumptions
b.) With the aid of suitable examples, discuss the analysis of digital evidence, highlighting the role of mathematical hashes.
6. a.) As a Digital Forensic Investigator, describe how you intent to process and recover digital evidence related to a "419" criminal case against Mr. Phish. Hint: State all assumptions and discuss the possible sources of evidence.
b.) Discuss the presentation of digital evidence to your peers and co-workers.