



# PIONEER INTERNATIONAL UNIVERSITY

Powered by Intellect, Driven by Values.

## UNIVERSITY EXAMINATIONS

**ACADEMIC YEAR:** 2020/2021

**SEMESTER:** MAY-AUG 2021

**CODE:** BSIT 4120

**UNIT:** FORENSICS

**DATE:** AUGUST 2021

**TIME:** 2 HOURS

---

**INSTRUCTIONS:** Answer question one and any other two  
**SECTION A: Compulsory.**

### QUESTION ONE

Computermania Inc. is the largest computer wholesale company located in Albuquerque, New Mexico. They are the exclusive Dell distributors in the region. Mr. Daniel Moore was the sales manager of Computermania and was responsible for sales and distribution operations of the company across the east coast region. Computermania was audited for the financial accounts by A & T Auditing firm. The management at Computermania was shocked to find that the company incurred USD 7.2 million losses in Dell Computer Sales Division. The company was aware that the Dell computer sales were on the rise at a rate of approximately 20% every year. They could not believe that this division was losing money. They suspected that Daniel Moore, the sales manager, had something to do with loss. The auditors A & T went through every financial transaction and noticed that many sales invoices were issued to a company called Raleigh Computer Mart, Inc. in Dallas, Texas. The invoices were heavily discounted beyond the company's standard discount policy. A & T's regional head Ms. Zelda Stevens contacted Johnson, a CHFI certified investigator, to assist her in the ongoing investigation of Computermania, Inc.

- a) Discuss how you would go about acquiring and preserving the evidence in this scenario. **5 Marks**
- b) Assuming you are Johnson, justify the forensic tools you would require for this investigation. **6 Marks**
- c) Discuss in detail how you would go about with your investigation and prove that Mr Daniel Moore was guilty of the offence he was accused of. **9 Marks**
- d) Discuss what type of forensic investigation this was. Justify your answer. **4Marks**



- e) Discuss the forensic ethical issues that the investigator will have to consider while conducting this investigation. **6 Marks**

## **SECTION B:**

### **QUESTION TWO**

- a) Discuss in detail the key considerations you would make in setting up a computer forensics lab in Kenya. **10 Marks**
- b) Outline the steps you would follow in processing an Internet abuse case. **10 Marks**

### **QUESTION THREE**

- a) You have been notified of the existence of threatening e-mails being sent to the CEO of your company. An examination of the e-mails revealed that they originated from outside of the country. Describe the steps you would take in your investigation. Address the issue of jurisdiction and locating your counterparts in the target country **8 Marks**
- b) You are accompanying a raid on a suspected software pirate. What would you be looking for? What precautions would you be taking? What evidence collection considerations would you be considering? **8 Marks**
- c) Explain why it can be difficult to determine if someone took a copy of a digital file. **4 Marks**

### **QUESTION FOUR**

- a) Discuss the main challenges of investigating computer-related crimes. **10 Marks**
- b) Describe a case reported in the media or from personal experience that demonstrates how digital evidence can be useful in the investigation of a violent crime or civil dispute. **10 Marks**