

**GWANDA STATE UNIVERSITY**



**FACULTY OF EXPLORATION AND EARTH SCIENCES**

**DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES**

**INTRODUCTION TO INFORMATION COMPUTER AND TECHNOLOGY**

**ESG1110/LCS1105**

**Final Examination Paper**

**Winter Exam**

**2024**

This examination paper consists of 2 pages.

**Time Allowed:** 3 hours

**Total Marks:** 100

**Special Requirements:** N/A

**Examiner's Name:** N Chauke

**INSTRUCTIONS.**

1. Answer **ALL** questions in Section A.
2. Answer any **THREE** Questions in Section B. Each question in this section will carry 20 marks.
3. Do not open question paper until told to do so.

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
SECTION A	<b>40</b>
SECTION B	<b>60</b>
<b>TOTAL ATTAINABLE MARKS</b>	<b>100</b>

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## **SECTION A: ANSWER ALL QUESTIONS**

### **QUESTION 1**

- a) With the aid of a diagram, briefly explain the information processing cycle of a computer for changing data into information. [8]
- b) Calculate the decimal equivalent  $11010_2$ .

### **QUESTION 2**

Define the following terms

- i. Input Device [2]
- ii. Computer [2]
- iii. Hardware [2]
- iv. Data [2]
- v. Information [2]

### **QUESTION 3**

- i. Describe any six functions of an operating system [8]
- ii. Name five types of Operating Systems, briefly explaining what they are and their use, while giving an example. [10]

## **SECTION B: ANSWER ANY THREE QUESTIONS**

### **QUESTION 4**

- i. Explain the difference between Hardware and Software [10]
- ii. What is Artificial intelligence? [2]
- iii. Elaborate on different types of Artificial Intelligence (AI) [8]

### **QUESTION 5**

Explore the benefits of Internet in the production processes of Crop Science. [20]

### **QUESTION 6**

- a. What is Microsoft Power Point [2]
- b. Name any five applications of Microsoft Power Point [5]
- c. Give a systematic method of opening a blank Microsoft Power Point Presentation [5]
- d. Name five advantages of presentation software [5]
- e. Name three steps in running or showing a packed presentation [3]

### **QUESTION 7**

- i. How do you avoid viruses? (5)
- ii. Describe three different types of viruses you are familiar with [15]

**END OF EXAMINATION PAPER**

