

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCE MANAGEMENT AND AGRICULTURE

DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES

INTRODUCTION TO INFORMATION COMPUTER AND TECHNOLOGY

INTRODUCTION TO COMPUTER APPLICATIONS

NHC1103/NGE1106

Final Examination Paper

SEPTEMBER

2024

This examination paper consists of 3 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

QUESTION	MARKS
SECTION A	40
SECTION B	60
TOTAL ATTAINABLE MARKS	100

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SECTION A: ANSWER ALL QUESTIONS

QUESTION 1

Draw a Data Processing Cycle and Elaborate [20]

QUESTION 2

- (i) Giving examples explain the terms Systems Software and Application Software
- (ii) Solve the following decimal to binary [10] **Please show workings**
 - a. 75
 - b. 625
 - c. 325
 - d. 600

SECTION B: ANSWER ANY THREE QUESTIONS

QUESTION 3

- i. List and briefly explain benefits of the Internet [10]
- ii. Name five types of Operating Systems, briefly explaining what they are and their use, while giving an example [10]

QUESTION 4

a) Explain the function of the following Central processing components

- i. Memory
- ii. Control Unit
- iii. ALU [10]

b) List and explain the basic operations of a computer? [10]

QUESTION 5

Computers are classified in a variety of ways depending upon different principles of classifications. Using the following classes of computers identify the principles used and briefly described each class.

- i. Super computers [5]
- ii. Microcomputers [5]
- iii. Mainframe computers [5]
- iv. Midrange computers [5]

QUESTION 6

The field of IT applications is very broad and it is assumed that we will have over 50 billion internet of things (IOT) by year 2050. (Zaidan and Zaidan 2020)

Discuss this statement focusing on IT applications in:

- i. Agriculture [10]
- ii. Ecommerce [10]

END OF EXAMINATION PAPER