



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND FOOD
SYSTEMS DEVELOPMENT

INFORMATION SYSTEMS DEPARTMENT

EXAMINATION PAPER

COURSE CODE : BIS111
COURSE TITLE : FOUNDATIONS OF INFORMATION SYSTEMS
DURATION : 3 Hours
LEVEL : 1.1
DATE : 2025

30 JUL 2025

INSTRUCTIONS TO CANDIDATES:

1. Answer **ALL** 4 questions
2. Each question carries 25 Marks.

QUESTION 1

a) As an Information Systems expert, suggest and explain any **five (5)** factors that you could consider when buying computers and related software in a large organisation like ZEGU

[10 marks]

b) A sugar refinery company has tasked you as the IT manager to implement use of computers in all departments.

i) In which departments would you initiate computerization and in what way. **[8 marks]**

ii) What are the disadvantages of using computers in the company? **[3 marks]**

iii) Explain the consequences of system failure in any of the departments. **[4 marks]**

QUESTION TWO

a) Explain the components of an information system, and briefly describe the function of each component.

[10marks]

b) What are the different types of information systems commonly used in organizations? Provide examples for each type.

[7 marks]

c) Discuss the advantages and disadvantages of using cloud computing for storing and accessing organizational data.

[8 marks]

QUESTION THREE

a) Define information system security and its objectives. **[3 marks]**

b) Discuss two strategies or technologies used to protect information systems against cyber threats.

[6 marks]

c) Why have there been so many recent incidents of data security breaches and loss of customer data by reputable companies? **[8 marks]**

[8 marks]

d) What security safeguards must companies have to deter electronic break-ins into their computer networks, business applications, and data resources

[8 marks]

QUESTION 4

Individuals and organizations have become so dependent on Information technology systems that the consequences of failure could be catastrophic to the individual or the organization.

a) Give two different examples of types of IT systems for which failure would be catastrophe. **[6 marks]**

b) Discuss the impact of emerging technologies such as artificial intelligence and the Internet of Things on information systems and their potential implications for organizations. **[9 marks]**

b) In each case explain why the failure would be catastrophic **[10 marks]**

1/ain