



Discuss the  
[s]

## ZIMBABWE EZEKIEL GUTI UNIVERSITY

---

FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND FOOD  
SYSTEMS DEVELOPMENT

---

### INFORMATION SYSTEMS DEPARTMENT

#### EXAMINATION PAPER

**COURSE CODE** : DIS122  
**COURSE TITLE** : DATA COMMUNICATION AND NETWORKING  
**DURATION** : 3 Hours  
**LEVEL** : 1.2  
**DATE** : 2025

22 SEP 2025

#### INSTRUCTIONS TO CANDIDATES:

1. Answer ALL FOUR questions
2. Each question carries 25 Marks.

### QUESTION 1

What is data communication, and why is it essential in today's digital world? Discuss the key components involved in data communication. **[25 marks]**

### QUESTION 2

Compare and contrast the OSI model and the TCP/IP model. Describe the functions of each layer in both models. **[25 marks]**

### Question 3

Discuss the importance of network security. What are some common threats to network security, and what measures can be taken to mitigate these threats?

**[25 marks]**

### Question 4

Identify and describe at least five common threats to network security. How do these threats impact network integrity and confidentiality? **[25**

**marks]**

7/6  
Pm