



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF ENVIRONMENTAL SCIENCE**

**DEPARTMENT OF ENVIRONMENTAL HEALTH**

**BACHELOR OF ENVIRONMENTAL SCIENCE HONOURS DEGREE IN PUBLIC  
HEALTH**

**COMMUNICABLE DISEASES**

**EPH 1204**

**Final Examination Paper**

**April 2025**

This examination paper consists of 2 pages

**Time Allowed: 3 hours**

**Total Marks: 100**

**Special Requirements: None**

**Examiner's Name: Mrs P Garamumhango**

**INSTRUCTIONS**

1. Answer any **FOUR** questions
2. Each question carries 25 marks

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
<b>TOTAL</b>	<b>100</b>

### **Question 1**

- a) Design an educational campaign to raise awareness about schistosomiasis. (12 marks)
- b) Explain the concept of herd immunity and its importance in disease prevention. (13 marks)

### **Question 2**

Describe how public health agencies monitor and investigate disease outbreaks.

### **Question 3**

Discuss the global burden of disease of communicable diseases, highlighting the determinants of high disease burden and risk factors in developing countries.

### **Question 4**

- (a) Discuss the role of public health interventions in controlling the spread of HIV/AIDS. (10 marks)
- (b) Discuss the contributory factors to poor control of malaria in Africa. (10 marks)
- (c) Differentiate between indirect and direct transmission with examples. (5 marks)

### **Question 5**

- (a) Critique the 'Pneumonia Wheel' as the foundation for ending preventable child deaths from pneumonia in Zimbabwe. (13 marks)
- (b) Discuss the epidemiology and clinical manifestations of cholera. (12 marks)

### **Question 6**

Using relevant examples, describe the chain of infection and explain its relationship to prevention and control of communicable diseases.