



**ZIMBABWE**

**MINISTRY OF HIGHER AND TERTIARY EDUCATION**

**HIGHER EDUCATION EXAMINATIONS COUNCIL  
(HEXCO)**

**NATIONAL CERTIFICATE**

**IN**

**ENVIRONMENTAL HEALTH & MEAT INSPECTION**

**SUBJECT: Communicable Disease**

**PAPER NO:399/S04**

**NOVEMBER/DECEMBER 2010 EXAMINATION**

**REQUIREMENTS**

**Pen, Pencil, Rubber and Ruler**

**INSTRUCTIONS TO CANDIDATE**

- 1. Answer ALL questions in section A. Section A carries 40 marks.**
- 2. Choose any THREE questions from Section B. Section B carries 60 marks.**

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**This paper consists of 2 printed pages.**

**2010/RW**

SECTION A

QUESTION 1

- (a) Define the term Epidemiology. (5 marks)  
*1) History of disease 2) Statistics of the disease 3)*
- (b) Briefly discuss the five broad uses of Epidemiology. (15 marks)

*1) proper ventilation  
2) close mouth when coughing/sneezing  
3) avoid crowded places  
4) Treatment of cases  
5) Isolate patients  
6) Give Health Education  
7) Exercise personal Hygiene  
8) Good nutrition*

QUESTION 2

An outbreak of bacillary dysentery is reported in your area of operation. What measures would you put in place as an EHT to control the spread of this disease. (20 marks)

SECTION B

CHOOSE ANY THREE QUESTIONS FROM THIS SECTION

QUESTION 3

Explain the four main ways by which diseases causing organisms can gain entry or access into the host's body. (20 marks)

*Inhalation  
Ingestion (indirect)  
Through the skin - bites*

QUESTION 4

- (a) Explain the role of Environmental Health Technician in the prevention and control of worm infestations. (10 marks)
- (b) Discuss how airborne diseases are prevented and controlled. (10 marks)

*Carry out awareness campaign  
study life cycle  
mode of transmission  
clearing of grass  
Health education  
Treatment of case  
isolating the affected*

QUESTION 5

- (a) Explain how a DOTs programme is administered in Zimbabwe under different settings. (15 marks)
- (b) State five benefits of DOTs. (5 marks)

*campaign*

QUESTION 6

Discuss and explain how a malaria in door residual spraying (IRS) Program is organised. (20 marks)

*Host  
organism Environment*

QUESTION 7

- (a) (i) Explain the THREE forms of anthrax. (6 marks)
- (ii) How would you control antrax-cordinal measures. (4 marks)
- (b) (i) Explain the THREE forms of plague. (6 marks)
- (ii) What are the control measures of plague cordinal measures. (4 marks)

*1) Report to the SMO  
2) Give health education to the people around  
3) Isolating the patients  
4) Treatment of cases  
5) Quarantine  
6) Fill the rat holes  
7) use of disinfectant*