



ZIMBABWE

**MINISTRY OF HIGHER AND TERTIARY EDUCATION,
INNOVATION, SCIENCE AND TECHNOLOGY
DEVELOPMENT**

**HIGHER EDUCATION EXAMINATIONS COUNCIL
(HEXCO)**

NATIONAL DIPLOMA

IN

ENVIRONMENTAL HEALTH

**SUBJECT: Water, Sanitation and Hygiene PAPER NO: 605/23/M06 .
Management**

DURATION: 3 Hours

OCTOBER/NOVEMBER 2024 EXAMINATION

REQUIREMENTS

INSTRUCTIONS TO CANDIDATE

- 1) Answer any five (5) questions
- 2) Each question carries twenty (20) marks.
- 3) Draw large and clear diagrams.
- 4) Do not write your name on the answer booklet.

QUESTION 1

- a) Briefly describe the following terms as used in WASH:
- i) Hygiene (2 marks)
 - ii) Sanitation (2 marks)
 - iii) Health (2 marks)
 - iv) Sewage (2 marks)
 - v) Sewerage (2 marks)
- b) With the aid of a well labelled diagram, explain how a septic tank works. (10 marks)

QUESTION 2

- a) Explain the steps involved in the procedure of taking a bacteriological water sample from a tapped water supply. (10 marks)
- b) Identify and explain any five (5) sources of contamination of a water source such as a well. (10 marks)

QUESTION 3

Discuss the burdens of poor sanitation and hygiene practices in the rural communities of Zimbabwe as per your field experiences. (20 marks)

QUESTION 4

Identify and discuss any five (5) hygiene enabling facilities in a rural set up in line with disease prevention and control. (20 marks)

QUESTION 5

Explain the steps involved in the treatment of water at a conventional water treatment plant. (20 marks)

QUESTION 6

Discuss the challenges faced when implementing sanitation and hygiene practices in the rural communities of Zimbabwe. (20 marks)

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