



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
MASTER OF PUBLIC HEALTH
END OF SEMESTER EXAMINATION APRIL 2026

UNIT CODE: MSH 719 **UNIT NAME:** Water, Sanitation, and Hygiene for Schools

DATE: XX April, 2026

TIME: Three Hours

Start: 1600 Hours

Finish 1900 Hours

INSTRUCTIONS

1. This exam is marked out of 100 marks
2. This Examination comprises TWO Sections
 Section A: Compulsory Question (25 marks)
 Section B: Long Answer Questions (75 marks)

SECTION A: COMPULSORY (25 Marks)

Short Answer Questions

1. Explain **FIVE** transmission pathways involved in disease spread. (5 marks)
1. Discuss **FIVE** critical times when learners should wash their hands to prevent disease transmission. (5 marks)
2. A day school has 300 learners but experiences frequent water shortages. Calculate the total daily water requirement for the school based on recommended standards. (5 marks)
3. Explain **FIVE** food safety risks associated with storing cooked and raw foods together. (5 marks)
4. Discuss **FIVE** features of a usable and functional sanitation facility in a school setting. (5 marks)

SECTION B (Set 5 Questions)

ANSWER ANY THREE (3) QUESTIONS (75 Marks)

Long Answer Questions

Question 6 (25 Marks)

- a) Describe **FOUR** key components of a comprehensive WASH assessment in a school setting. (8 marks)
- b) Explain **THREE** ways in which inadequate sanitation contributes to the transmission of communicable diseases in schools. (9 marks)
- c) Recommend **FOUR** practical interventions that can be implemented to promote a safe and healthy school environment. (8 marks)

Question 7 (25 Marks)

A school plans to implement a safe water supply system. **(25 Marks)**

- a) Discuss **FOUR** major water sources suitable for school settings, highlighting their advantages and limitations. (8 marks)
- b) Explain **THREE** water treatment methods used to produce potable water. (9 marks)
- c) Propose **FOUR** strategies for maintaining water quality within the school environment. (8 marks)

Question 8 (25 Marks)

A case of foodborne illness has been reported in a school feeding programme.

- a) Explain the World Health Organization Five Keys to Safer Food and their relevance in school settings. (10 marks)
- b) Analyze the roles of **THREE** key stakeholders in maintaining food safety in schools. (15 marks)

Question 9 (25 Marks)

Climate change and population growth are increasingly affecting WASH services in schools.

- a) Discuss **TWO** ways in which climate change influences water and sanitation systems in school settings. (4 marks)
- b) Explain **THREE** Sustainable Development Goals that are linked to WASH in schools. (9 marks)
- c) Propose **FOUR** climate-resilient WASH interventions that can be implemented in schools. (12 marks)

Question 10 (25 Marks)

You have been assigned as a Public Health Officer to conduct an assessment of WASH conditions in a boarding school.

A rural school is experiencing poor hygiene practices and increased absenteeism. **(25 Marks)**

- a) Explain **four** educational outcomes that result from improved WASH conditions in schools. (12 marks)
- c) Design a school-based hygiene promotion intervention targeting behaviour change. (13 marks)