



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SPECIAL/SUPPLEMENTARY EXAMINATIONS
SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR
OF SCIENCE IN PUBLIC HEALTH
SECOND SEMESTER 2024/2025
[AUGUST, 2025]

PHES 217: WATER SUPPLY AND QUALITY CONTROL

STREAM: Y2 S2

TIME: 2 HOURS

DAY: FRIDAY, 12:00 - 2:00 P.M.

DATE: 15/08/2025

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE in section A (Compulsory) and any other TWO questions from section B.***

SECTION A

- (a) Briefly describe main water sources in Kenya. (6 marks)

(b) Elaborate on the classification of water born disease. (4 marks)
- (a) Factors to consider when protecting a spring as a water source. (5 marks)

(b) Main sources of rain water contamination. (5 marks)
- (a) Mode of water transportation can be a source of water contamination, elaborate. (5 marks)

(b) What are the factors to consider when selecting a water pump? (5 marks)
- ((a) Explain briefly what are the sources of rain water contamination. (5 marks)

(b) Clarify reasons why chlorine is the most common chemical used for water treatment in our communities. (5 marks)

SECTION B

Discuss factors affecting water usage in our community. (15 marks)

Discuss steps to take when sampling water for Bacteriological analysis from a hand dug without a pump. (15 marks)

Describe parameters used to describe water quality in our communities. (15 marks)