



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH
WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

PHT 116: PRINCIPLES OF ENVIRONMENTAL HEALTH

Date: 12th January, 2016

Time: 8.30 - 10.30 am

INSTRUCTIONS:

- Write your University Registration Number on every Answer Booklet you use.
- Do not write your name on any paper you use.
- The time allowed for this paper is TWO (2) hours.
- The questions are set out in TWO (2) sections, A and B.
- Read carefully the additional instructions preceding each section.
- Observe carefully further instruction on the cover of Answer booklets.

SECTION A (Attempt all the questions in this section)

1. Define the criteria used to determine:
 - a) Satisfactory water (1 mark)
 - b) Physically accessible Water (1 mark)
 - c) No access to water to safe water (2 marks)
 - d) Basic access to safe water (2 marks)
 - e) Intermediate access to safe water (2 marks)
 - f) Optimal access to safe water (2 marks)
2. Outline five properties of hazardous waste (5 marks)
3. You are the Public Health Officer of Mandera County that receives high amount of sunshine. In a bid to improve the quality of water, you have been mandated to use solar energy to treat water
 - a. Give three strengths of the use of solar energy to treat water (3 marks)
 - b. Give two limitations of the use of solar energy to treat water (2 marks)
4. Solid waste management can be classified into five main stages. State five functional elements of solid waste management (5 marks)
5. State five septic tank and their advantages (5 marks)
6. You are a member of a consultancy firm that has been contracted to help prevent and control of noise pollution in a densely populated city. Suggest five measures as a public health student that will help mitigate noise pollution (5 marks)
7. State basic requirements expected from a human waste (excreta) disposal method (5 marks)

Section B (Answer any two questions in this section)

8. Discuss types of water pollutants (15 marks)
9. You are a resident of an area whose farmers incur massive crop losses because of chronic pest infestation. You are approached by the Area Agricultural Officer for advice. Discuss measures you will advise to be instituted to curb this menace. (15 marks)
10. Discuss the advantages and disadvantages of a drilled well as a source of water supply (15 marks)