



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## UNIVERSITY EXAMINATIONS 2024/2025

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN PUBLIC HEALTH

### HPP 3413: CONSERVANCY

DATE: JANUARY 2025

TIME: 2 HOURS

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**INSTRUCTIONS: Answer Question ONE and any other TWO questions.**

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#### QUESTION ONE (30 MARKS)

- a) Describe environmental limitations to the provision of pit latrines (2 Marks)
- b) Describe the possible contaminants of ground water associated with pit latrines (5 Marks)
- c) Differentiate between the traditional and the Ventilate Improved Pit latrine (VIP) (4 Marks)
- d) Describe the features of a VIP latrine and how it works (4 Marks)
- e) Explain the advantages and disadvantages of using a pour flush latrine (4 Marks)
- f) Describe the materials and specifications of a bucket latrine (3 Marks)
- g) Explain the pros and cons of using a communal latrine. (4 Marks)
- h) Describe two feasible means of human faecal matter disposal in an emergency (4 Marks)

#### QUESTION TWO (20 MARKS)

Write short notes on the use of human faecal matter under the following headings;



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

- i. Agriculture
- ii. Aquaculture
- iii. Biogas production
- iv. Direct Discharge into sewers and burial pits

### **QUESTION THREE (20 MARKS)**

Compare and contrast Aqua privy and pour flush as methods of excreta disposal. (20 Marks)

### **QUESTION FOUR (20 MARKS)**

Discuss the merits and demerits of conservancy methods. (20 Marks)