



UNIVERSITY OF SWAZILAND

Faculty of Health Science

Department of Environmental Health Sciences Final Examination December 2009

Title of paper: Rural Excreta Disposal Methods

Course code: EHS 216

Time allowed: 2 hours

Marks allocation: 100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer ALL questions
- 3) Each question is weighted 25 marks
- 4) Write neatly and clearly

This paper is not to be opened until the invigilator has granted permission

QUESTION ONE

Most communicable diseases in Swaziland are excreta related. Describe the role played by the Swaziland Ministry of Health and the Swazi community in providing means of sanitation in rural areas Swaziland. (25 marks)

QUESTION TWO

1. In the five transmission routes of a pathogen from excreta to susceptible host, explain preventive measures. (10 marks)
2. Describe the **constructional details** and **operation** of a ventilated improved pit latrine. (15 marks)

QUESTION THREE

You are in charge of an area with a population of about 5 000 where there is pipe water supply but no sewerage services. Describe the method of excreta disposal you with recommend to the residents of Swaziland and give the reason for your choice. Use a sketch to show the components and operation of the system. (25 Marks)

QUESTION FOUR

1. Define the following terms as they relate to your profession:
 - a. Public Health
 - b. Sanitation
 - c. environmental Health(3 Marks)
2. Fully describe the scope of public health by mentioning ten (10) of its components. (17 Marks)
3. Mention five methods suitable for rural areas in Africa where water supply is scarce. (5 marks)