UNIVERSITY OF SWAZILAND Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH

FINAL EXAMINATION PAPER 2011

TITLE OF PAPER

RURAL EXCRETA DISPOSAL METHODS

COURSE CODE

EHS 216

DURATION

2 HOURS

MARKS

100 MARK

INSTRUCTIONS

READ THE QUESTIONS & INSTRUCTIONS

CAREFULLY

: ANSWER ANY FOUR QUESTIONS

: EACH QUESTION CARRIES 25 MARKS

: WRITE NEATLY & CLEARLY

: NO PAPER SHOULD BE BROUGHT INTO NOR OUT

OF THE EXAMINATION ROOM

: BEGIN EACH QUESTION ON A SEPARATE SHEET

OF PAPER

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

QUESTION ONE

(a) One of the main activities in the decomposition of excreta is destruction of pathogens. Account for this phenomena in a decommissioned pit toilet.

[10 marks]

(b) (b) There is a strong relationship between the disposal of excreta and the state of health of the population and prosperity of a country. However, the relationship is both direct and indirect in character. By giving examples explain what is meant by that?

[15 marks]

QUESTION TWO

- (a) Contrast Enviro loo latrines against Ventilated pit latrines. What are the pros and cons for each? [10 marks]
- (b) Transmission of diseases from excreta to new host is often referred to as the faecal oral route. With the aid of a diagram discuss this route giving examples [15 marks]

QUESTION THREE

- (a) Explain the effects of indiscriminate excreta disposal [10 Marks]
- (b) Faucal borne diseases are caused by viruses, bacteria, parasitic worms, helminthes, and protozoa. Why are parasitic worm infestations such a big worry? [5marks]
- (c) In using the Mapping Tool in the PHAST methodology what aspects would you focus on? [10 marks]

QUESTION FOUR

- (a) Explain advantages and disadvantages of any five principles utilized during the PHAST approach to community sanitation [15 marks]
- (c) Differentiate between a septic tank and a cesspool. [5 marks]
- (d) For excreta to transmit diseases five factors are necessary. What are they? [5 marks]

QUESTION FIVE

With the aid of a sketch diagram describe how the following types of dry toilet systems operate;

i.	Enviro loo toilet	[8 marks]
ii.	Dry composting toilet	[8 marks]
iii.	Ventilated double pit latrine	[9 marks]