

**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Sciences**

**DIPLOMA IN ENVIRONMENTAL HEALTH SCIENCE**

**MAIN EXAMINATION PAPER 2012**

<b>TITLE OF PAPER</b>	<b>:</b>	<b>EXCRETA DISPOSAL METHODS</b>
<b>COURSE CODE</b>	<b>:</b>	<b>EHS 216</b>
<b>DURATION</b>	<b>:</b>	<b>2 HOURS</b>
<b>MARKS</b>	<b>:</b>	<b>100 MARK</b>
<b>INSTRUCTIONS</b>	<b>:</b>	<b>READ THE QUESTIONS &amp; INSTRUCTIONS CAREFULLY</b>
	<b>:</b>	<b>ANSWER ANY FOUR QUESTIONS</b>
	<b>:</b>	<b>EACH QUESTION CARRIES 25 MARKS</b>
	<b>:</b>	<b>WRITE NEATLY &amp; CLEARLY</b>
	<b>:</b>	<b>NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM</b>
	<b>:</b>	<b>BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER</b>

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

## **EHS 216 Rural Excreta Disposal Examination 2012**

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### **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) There is a strong relationship between the disposal of excreta and the state of health of the population and development of a country. By giving examples explain what is meant by this? [15 marks]

### **QUESTION TWO**

- (a) Contrast Enviro loo latrines against Ventilated pit latrines. What are the pros and cons for each? [10 marks]
- (b) One mechanism of disease transmission from excreta to a susceptible host is often referred to as the fecal oral route. With the aid of a diagram explain these route giving examples of a disease in each. [15 marks]

### **QUESTION THREE**

- (a) Explain the deleterious effects of indiscriminate excreta disposal on health and environment [15 Marks]
- (b) Feecal borne diseases are caused by viruses, bacteria, parasitic worms helminthes, and protozoa. Why are parasitic worm infestations such a big worry? [10 marks]

### **QUESTION FOUR**

- (a) Explain the advantages and disadvantages of any five principles utilized during the PHAST approach to community development [15 marks]
- (c) Differentiate between a septic tank and a cesspool. [5 marks]
- (d) For a diseases to be transmitted from excreta 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 may contaminate the environment.

- i. VIP [12 marks]
- ii. Dry composting toilet [13 marks]