



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH

MAIN EXAMINATION PAPER 2019

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| TITLE OF PAPER | : | On site sanitation |
| COURSE CODE | : | EHS 205 |
| DURATION | : | 2 HOURS |
| MARKS | : | 100 |
| INSTRUCTIONS | : | READ THE QUESTIONS & INSTRUCTIONS CAREFULLY |
| | : | ANSWER ANY FOUR QUESTIONS |
| | : | EACH QUESTION CARRIES 25 MARKS |
| | : | WRITE NEATLY AND CLEARLY |
| | : | NO PAPER SHOULD BE BROUGHT INTO 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 composting toilet is a type of dry toilet that uses predominantly aerobic processing system to treat human excreta by composting or managed aerobic decomposition.

- a. With an aid of a sketch describe the construction details of compost latrine (dry latrine) [15 Marks]
- b. Describe the operation of the compost latrine toilet [10 Marks]

QUESTION TWO

- c. Explain five negative effects of using Econsen toilet (dry latrine) for human excreta disposal. [15 marks]
- d. What are the advantages of the Econsen toilet (dry latrine) [10 marks]

QUESTION THREE

The Government of Eswatini has developed several policies to implement the National Development Strategy. One of such policies is the National Sanitation and Hygiene Policy (NSHP) (2019) for WASH activities.

- a. Explain five major objectives of Eswatini National Sanitation and Hygiene Policy 2019 objectives [15 Marks]
- b. Explain the role played by ten (10) actors (on WASH) recognized by Eswatini National Sanitation and Hygiene Policy of 2019 [10 Marks]

QUESTION FOUR

- a. Describe five guiding requirements for choosing a sustainable sanitation facilities in the community lead total sanitation (CLTS) [10 Marks]
- b. What are five factors influencing the selection of a method ideal for human excreta disposal in Eswatini. [5 Marks]
- c. Give five reasons why governments and international organizations should invest on sanitation and public health for sustainable development. [10 Marks]

QUESTION FIVE

A septic tank is a method of excreta disposal that can be recommended in an area where there is piped water supply with no sewer line.

- a. With an aid of a sketch detail the construction of a septic tank by mentioning five of its key components that are required. **[15 marks]**
- b. Describe five operation requirements for a septic tank in a rural residential. **[10 Marks]**