



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DEGREE IN ENVIRONMENTAL HEALTH

RE-SIT EXAMINATION PAPER 2020

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 & 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) One of the main activities in the decomposition of excreta is destruction of pathogens. Using a sketch account for this phenomenon in a decommissioned pit toilet. [10 marks]
- (b) There is a strong relationship between the disposal of excreta and the state of health of a population. However, the relationship is both direct and indirect in character. By giving examples explain what is meant by this statement [10 marks]
- (c) Contrast public latrines against individual latrines. What are the pros and cons for each? [5 marks]

QUESTION TWO

- (a) For each of the five transmission routes of pathogens from excreta to a susceptible host, describe preventive measures. (15 marks)
- (b) Describe the constructional details of a ventilated improved pit latrine. (10 marks)

QUESTION THREE

- (a) Explain the effects of indiscriminate excreta disposal [10 marks]
- (b) Faecal borne diseases are caused by viruses, bacteria, parasitic worms, helminthes, and protozoa. Why is worm infestations by-roundworms, hookworms, whipworms, pinworm and tapeworm such a big worry? [5 marks]
- (c) Describe five criteria for choosing an excreta disposal method. [10 marks]

QUESTION FOUR

- (a) Discuss advantages and disadvantages of any five principles utilized during the PHAST approach to community development [10 marks]
- (c) Differentiate between a septic tank and a cesspool. [5marks]
- (d) For excreta to transmit diseases five factors are necessary. What are they? [10 marks]

QUESTION FIVE

- (a) What are the advantages of dry toilet systems over ordinary VIP? [5 marks]
- (b) With the aid of a sketch diagram describe how the following types of dry toilet systems operate;
- i. Dry composting [10 marks]
 - ii. Enviro Loo [10 marks]
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