

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences
BSc IN ENVIRONMENTAL HEALTH
MAIN EXAMINATION PAPER 2012

TITLE OF PAPER	:	On site sanitation
COURSE CODE	:	EHM 202
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

- (i) You are stationed at Matsanjeni Health Centre. A certain head of homestead has approached you for advice as to the method of excreta disposal suitable for his homestead. His problem is that he uses a spring in summer and a bore hole in winter. All these are located within his compound. The other problem is that the water table in this area is very high.
Describe the construction and operation of the system of excreta disposal you will recommend for this homestead. [20 marks]
- (ii) Mention five conditions that must be satisfied for disease transmission from a reservoir to susceptible host. [5 marks]

QUESTION TWO

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

QUESTION THREE

- (i) Explain how you would go about in organizing a community for communal construction of sanitary accommodation for excreta disposal in rural areas and small communities in Swaziland. [20 marks]
- (ii) What is the value of using participatory approaches in rural excreta disposal systems? [5 marks]

QUESTION FOUR

- (i) There is direct relationship between excreta and disease transmission within a defined community. Mention five such diseases and their mode of transmission. [15 marks]
- (ii) What are five effects of indiscriminate excreta disposal to environment? [10 marks]

QUESTION FIVE

- (i) Mention five (5) factors that are considered in the selection of a method of excreta disposal for community. (5 marks)
- (ii) Mention five (5) conditions that must be satisfied by a method of choice for excreta disposal (10 Marks)
- (iii) Describe the five precautions that should be observed in the operation of a bucket latrine (10 Marks)