



UNIVERSITY OF SWAZILAND
Faculty of Health Sciences
Department of Environmental Health Science

DEGREE IN ENVIRONMENTAL HEALTH SCIENCE
RE-SIT EXAMINATION PAPER, JULY 2019

TITLE OF PAPER : SOLID WASTE MANAGEMENT
COURSE CODE : EHS 216
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 OR 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.

Solid Waste Management – Re-Sit - 2019.

QUESTION 1

Describe the environment under the following:

- a) Physical environment. (5)
- b) Biological environment. (5)
- c) Political and Social environment. (15)

TOTAL 25 MARKS

QUESTION 2

Describe solid waste sources under the following:

- a) Domestic waste. (5)
- b) Trade and commercial waste. (5)
- c) Industrial waste. (5)
- d) Institutional waste. (5)
- e) Agricultural waste. (5)

TOTAL 25 MARKS

QUESTION 3

- a) What are the objectives of waste storage? (5)
- b) Discuss organization of waste collection under the following:
 - i) Day Areas. (5)
 - ii) Individual Team Areas. (5)
- c) What is considered when selecting waste collection vehicle? (10)

TOTAL 25 MARKS

QUESTION 4

- a) Discuss composting under the following.
 - i) Windrowing composting. (5)
 - ii) Forced aeration system. (5)
 - iii) In-vessel composting. (5)
- b) What are the benefits of waste minimization and recycling? (10)

TOTAL 25 MARKS

QUESTION 5

- a) What are the basic requirements for recycling? (10)
- b) Discuss the main types of recycling systems. (15)

TOTAL 25 MARKS