



UNIVERSITY OF SWAZILAND
Faculty of Health Science

Department of Environmental Health
Sciences

Final Examination 2009

Title of paper: WATER QUALITY MANAGEMENT 11

Course code: EHS 583

Time allowed: 2 hours

Marks allocation: 60 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer THREE questions
- 3) Each question is weighted 20 marks
- 4) Write neatly and clearly

This paper is not to be opened until the invigilator has granted
permission

Main Examination: May 2009

EHS 583 II

Question 1.

In Water Quality Management what do understand by the following:

- i) Water Quality Standards. (5)
- ii) Criteria. (5)
- iii) Water Quality Guidelines. (5)
- iv) Water Quality Objectives. (5)

Question 2.

A) Describe Uniform Effluent Standard (UES) approach in developing Pollution Control Standard (PLS) (10)

B) What are the advantages and disadvantages of a UES. (10)

Question 3.

What are the impacts on public health and water environment by the following pollutants:

i) Oil Pollution (10)

ii) Toxic Pollution (10)

Question 4.

With regard to the biological, chemical and physical approach adopted, water quality models can be classified as Kinetic, Biocenotic and Ecological.

Describe briefly the characteristics of each model. (20)