



**UNIVERSITY OF SWAZILAND**  
Faculty of Health Science

Department of Environmental Health  
Sciences

Final Examination 2009

Title of paper: WATER RESOURCES MANAGEMENT 1

Course code: EHS 580

Time allowed: 2 hours

Marks allocation: 100 Marks

Instructions:

- 1) Read the questions and instructions carefully
- 2) Answer ALL FOUR (4) questions
- 3) Each question is weighted 25 marks
- 4) Write neatly and clearly
- 5) Begin each question on a separate sheet of paper

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

**Question one**

1. What do you understand by water resources management? (5 Marks)
2. Fully explain the role of the following in water resources management and say how they interact with each other in coordination of their services.
  - a. Water engineers
  - b. Lawyers
  - c. Ecologists
  - d. Economists
  - e. Environmental Health Officers (20 Marks)

**Question two**

1. Mention five components of integrated water resources management. (5 Marks)
2. Describe the four dimensions to be considered in the integration of water resources management. (20 marks)

**Question three**

1. Mention five aims of demand management of water resources (5 marks)
2. In about two pages, compare and contrast water resources demand versus supply management for an urban area in Swaziland (20 marks)

**Question Four**

- a) What does closing a cycle mean in water resources? (5 Marks)
- b) Make two examples where water resources cycles are closed. (20 Marks)