

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences
DEGREE IN ENVIRONMENTAL HEALTH
MAIN EXAMINATION PAPER 2013

TITLE OF PAPER : **WATER RESOURCES MANAGEMENT**

COURSE CODE : **EHS 580**

DURATION : **2 HOURS**

MARKS : **100 MARKS**

INSTRUCTIONS : **READ THE QUESTIONS & INSTRUCTIONS CAREFULLY**

: **ANSWER ALL 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

- a) What do you understand about management of water resources? (5 marks)
- b) There are cross-cutting issues that cut across the decision process in integrated water resources management.
 - i) Mention five of cross-cutting conditions which have an impact on sustainable development and are desirable for socio-economic development. (5 Marks)
 - ii) Describe four of these cross-cutting issues in relation to water resources equity management. (15 marks)

Question two

- a) Who are the key actors in capacity building for river basin management in Swaziland? (5 marks)
- b) River basin management consists of all activities aimed at better functioning of the river basin including the water system and the land, in as far as it affects or is affected by the water. Describe the five activities involved in water sector capacity building for river basin management. (20 marks)

Question three

- a) Fully describe the philosophy behind sustainable development as it relates to water resources management? (10 marks)
- b) There are numerous ways to jeopardize the future use of water. Describe four situations by which water resources use can be rendered unsustainable. (15 marks)

Question four

- a) Explain the five Dublin principles as referred to water resources management. (10 marks)
- b) Explain five aims of water resources demand management. (10 marks)
- c) Mention five demand management instruments for water resources. (5marks)