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See corrections  
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15/11/2008*

**UNIVERSITY OF SWAZILAND  
Faculty of Health Sciences**

**DEGREE IN ENVIRONMENTAL HEALTH**

**FINAL EXAMINATION PAPER 2008**

- TITLE OF PAPER** : WATER RESOURCES I
- COURSE CODE** : EHS 580
- DURATION** : 2 HOURS
- MARKS** : 100
- INSTRUCTIONS** :
- : READ THE QUESTIONS & INSTRUCTIONS CAREFULLY
  - : ANSWER ONLY FOUR QUESTIONS
  - : QUESTION ONE AND TWO ARE COMPULSORY
  - : 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. These are conditions for sustainable development and desirable for socio-economic development. Describe these in relation to water resources equity management. (20 marks)

**Question two**

- a) Who are the key actors in capacity building for river basin management? (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 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 relate to water resources? (5 marks)
- b) There are numerous ways to jeopardize the future use of water. Describe four ways by which water recourses use can be rendered unsustainable.

**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)

**Question five**

- 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)