UNIVERSITY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

SUPPLEMENTARY EXAMINATION:

JULY 2006

B.Sc. II

TITLE OF PAPER

WATER RESOURCES

COURSE NUMBER

GEP 228

TIME ALLOWED

THREE (3) HOURS

INSTRUCTIONS

SECTION A IS COMPULSORY

ANSWER ANY TWO QUESTION S FROM

SECTION B

ILLUSTRATE YOUR ANSWERS WITH

APPROPRIATE DIAGRAMS

MARKS ALLOCATED

QUESTION 1 CARRIES 40 MARKS

THE OTHER QUESTIONS CARRY 30

MARKS EACH

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

SECTION A: COMPULSORY QUESTION

Question 1:

Discuss the fact that the polar regions do not get extremely cold and the tropics extremely hot.

(40 marks)

SECTION B: ANSWER ANY TWO QUESTIONS

Question 2:

- (a) Describe the factors influencing an urban micro climate. (15 marks)
- (b) Discuss the effect of climate on agricultural activities in Swaziland. (15 marks)

(30 marks)

Question 3:

Describe the characteristics and distribution of water resources in Swaziland (30 marks)

Question 4:

(a) Explain the importance of discharge measurement in water resources.

(15 marks)

(b) Describe two methods of discharge measurement.

(15 marks)

(30 marks)

Question 5:

Describe and explain two methods of estimating the water resource of a catchment.

(30 marks)