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**UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE &
PLANNING**

**FINAL EXAMINATION, MAY 2012
MSc**

**TITLE OF PAPER : DEVELOPMENT, URBAN SYSTEMS AND
THE ENVIRONMENT**

COURSE NUMBER : ERM 620

TIME ALLOWED : THREE (3) HOURS

**INSTRUCTIONS : ANSWER TWO (2) QUESTIONS
ILLUSTRATE YOUR ANSWERS WITH
APPROPRIATE DIAGRAMS**

**MARK ALLOCATION : EACH QUESTION CARRIES FIFTY (50)
MARKS**

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

ERM 620: DEVELOPMENT, URBAN SYSTEMS AND THE ENVIRONMENT

ANSWER TWO QUESTIONS ONLY

QUESTION 1

Explain how you would undertake a study on the ecological footprint of either Mbabane or Matsapha. **(50 Marks)**

QUESTION 2

a) Outline any three models of urban ecology that you would use to study urban ecological issues in urban areas. **(30 marks)**

b) Assess the relevance and effectiveness of the three models outlined above. **(20 marks)**

(50 Marks)

QUESTION 3

Discuss the factors affecting land allocation and land use in peri-urban areas of Swaziland. **(50 Marks)**

QUESTION 4

a) Examine the main sources of ambient air pollution in urban areas of Swaziland. **(15 marks)**

b) Review the air quality management strategies pursued by any one city in Africa or Asia.

(35 marks)

(50 Marks)

END OF EXAM PAPER