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**UNIVERSITY OF SWAZILAND**  
**DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING**  
**SUPPLEMENTARY EXAMINATION, JULY 2014**  
**B.A., BASS, B. Ed. (FT/PT)**

**TITLE OF PAPER: BIOGEOGRAPHY**

**COURSE NUMBER: GEP 312**

**TIME ALLOWED: THREE (3) HOURS**

**INSTRUCTIONS:**

- 1. ANSWER THREE QUESTIONS**
- 2. QUESTION 1 IS COMPULSORY**
- 3. ILLUSTRATE YOUR ANSWERS WITH EXAMPLES AND CLEARLY DRAWN DIAGRAMS WHERE APPROPRIATE**

**ALLOCATION OF MARKS: QUESTION 1 (COMPULSORY) CARRIES 40 MARKS WHILE THE REST CARRY 30 MARKS EACH**

**THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR**

**GEP 312: BIOGEOGRAPHY – JULY 2014**

**SECTION A: COMPULSORY**

**QUESTION 1**

- a) Identify and discuss human induced environmental problems which necessitate conservation in Southern Africa. (30 marks)
  - b) Describe the ecosystem approach. (10 marks)
- (40 Marks)**

**SECTION B: ANSWER ANY TWO QUESTIONS**

**QUESTION 2**

Using examples, describe the physiognomy of plant species. (30 Marks)

**QUESTION 3**

Using examples, describe the physiological adaptations of plants and animals. (30 Marks)

**QUESTION 4**

Explain how moisture and wind affect ecosystem characteristics and development. (30 Marks)

**QUESTION 5**

- a) With reference to the nitrogen cycle, explain how nutrients cycle in an ecosystem. (20 marks)
  - b) Using examples, distinguish between active and storage pools in the cycling of nutrients. (10 marks)
- (30 Marks)**