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UNIVERSITY OF ESWATINI  
DEPARTMENT OF BIOLOGICAL SCIENCES  
SUPPLEMENTARY EXAMINATION PAPER DECEMBER 2019

**TITLE OF PAPER:** ECOLOGY

**COURSE CODE:** BIO 311

**TIME ALLOWED:** THREE HOURS

**INSTRUCTIONS:**

1. ANSWER ANY FOUR QUESTIONS IN

THIS PAPER

2. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELLED  
DIAGRAMS WHERE APPROPRIATE

**SPECIAL REQUIREMENTS:** NONE

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

Answer any four questions in this paper

PTO

**Question 1**

Describe the different stages in the process of scientific inquiry. **[Total marks = 25]**

**Question 2**

Discuss the flow of energy in the ecosystem. **[Total marks = 25]**

**Question 3**

Discuss how climate change could be a threat to the ecology of the Kingdom of Eswatini. **[Total marks = 25]**

**Question 4**

Discuss the different factors that influence the distribution of organisms in the ecosystem. **[Total marks = 25]**

**Question 5**

Discuss the different ways in which organisms are adapted to survive in dry environments. **[Total marks = 25]**

**END OF EXAMINATION PAPER**

PTO