

UNIVERSITY OF ESWATINI
DEPARTMENT OF BIOLOGICAL SCIENCES
MAIN EXAMINATION PAPER, DECEMBER 2018

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

Question 1

Discuss the flow of energy through the ecosystem.

[Total marks =25]

Question 2

A mature forest community is completely destroyed by fire. Discuss the stages of succession by which this community is restored.

[Total marks =25]

Question 3

Discuss the different factors that influence the distribution of organisms in the ecosystem.

[Total marks = 25]

Question 4

Deforestation is one of the threats to ecology. Discuss.

[Total marks =25]

Question 5

Discuss the factors that influence the choice of mating partners in animals.

[Total marks = 25]

END OF EXAMINATION PAPER