



FACULTY	AGRICULTURE, ENGINEERING & NATURAL SCIENCES		
DEPARTMENT	ENVIRONMENTAL SCIENCE		
SUBJECT	DISTURBANCE AND RESTORATION ECOLOGY		
SUBJECT CODE	EBL 3802		
DATE	OCTOBER/NOVEMBER 2021		
DURATION	2 HOURS	MARKS	90

SUPPLEMENTARY EXAMINATION

Examiner: Dr. W. C. Nesongano (University of Namibia)

Internal Moderator: Prof. I. Mapaure (University of Namibia)

External Moderator: Prof. C.T. Downs (University of KwaZulu-Natal)

This examination paper consists of three (3) pages including the cover page.

Instructions

SECTION A: answer ALL questions

SECTION B: choice questions (answer only ONE question).

UNIVERSITY OF NAMIBIA EXAMINATIONS

Section A

Answer **all** questions in this section. This section is worth 60 marks.

1. As an ecology student, briefly discuss the relevance of disturbance and restoration ecology and point out the linkage between the two terms (disturbance and restoration). (4)
2. Why is it desirable to use local plant materials to revegetate as a restoration effort? (4)
3. Study the two communities (A and B) below and answer the following question.

Community A	Community B
High species diversity	Low species diversity

- Which community is more stable? Explain your choice! (5)
4. Distinguish between the insurance effect and the averaging effect. (4)
 5. Distinguish between the two modes of ecosystem recovery (4)
 6. Outline any eight attributes of a restored ecosystem. (8)
 7. Briefly discuss the disturbance hypothesis in relation to ecosystem stability. (6)
 8. Briefly describe the characteristics of a disturbance. (10)
 9. Discuss the use of the Natural Disturbance Regime (NDR) and the challenges it faces. (15)

SECTION B

Answer **only one question** from this section. This section is worth 30 marks.

Question 1

Discuss herbivory as a disturbance in an ecosystem. Clearly highlighting the important aspects of herbivory and not limited to: the categories of herbivory and the plants' defensive mechanisms for herbivory. (30)

OR

Question 2

Discuss any six guiding principles in restoration ecology. (30)

END OF EXAMINATION
