FACULTY	**AGRICULTURE AND FISHERIES SCIENCES**		
DEPARTMENT	**ANIMAL PRODUCTION, AGRIBUSINESS & ECONOMICS**		
SUBJECT	**INTRODUCTION TO FODDER PRODUCTION**		
SUBJECT CODE	**F3502AF**		
DATE	**NOVEMBER 2023**		
DURATION	**3 HOURS**	**MARKS**	**100**

SECOND OPPORTUNITY EXAMINATION

Examiners: Prof. J. Mupangwa

Internal Moderator: Dr. A. Kahumba

External Moderator: Prof. C. M. Mnisi

This question paper consists of TWO (2) pages including this page.

Instructions:

- ***This question paper consists of four questions***
- **Attempt ALL questions!!**
- **Calculators are allowed in the exam**

UNIVERSITY OF NAMIBIA EXAMINATIONS

QUESTION 1 **[25 MARKS]**

Explain the microbial fermentation processes that occur during ensiling.

QUESTION 2 **[25 MARKS]**

(a) Giving examples, describe the main characteristics of:

(i) Hay pasture crops. (7)

(ii) Silage pasture crops. (8)

(b) Discuss the mechanical control method of weed management used in cultivated pastures. (10)

QUESTION 3 **[25 MARKS]**

(a) Impermeability of the legume seed coat to water or gases can be overcome by seed scarification. Describe the following legume seed scarification methods.

(i) Mechanical scarification (6)

(ii) Chemical scarification (6)

(b) Explain the three phases of development of a sown fodder crop. (13)

QUESTION 4 **[25 MARKS]**

Quality is the relative term meaning a degree of excellence expressed as a rating when compared with an acceptable standard. Briefly explain the procedures of conducting the following pasture seed quality parameters.

(i) Seed purity analysis (12)

(ii) Seed germination test (13)

END OF PAPER