



COLLEGE OF AGRICULTURE, FISHERIES & FORESTRY

School of Agricultural Sciences

Department of Crop Production

Trade Diploma in Animal Husbandry – Year 1

AGO 404: Pasture and Fodder Production

Trimester 2 Final Examination 2017

[Total Marks: 100]

Time Allowed : 3 hours plus 10 minutes reading time

Instructions : This paper consists of 6 pages.

Please check to see that your paper is complete.

Answer ALL questions in the answer booklet. Number your answers correctly in the answer booklet.

Write your student ID number on all the pages that you use including any additional sheet of paper.

Printed or written material is not allowed into the examination hall.

Mark values appear at the end of each question or part thereof.

“MOBILE PHONES ARE STRICTLY NOT ALLOWED”

SECTION	DESCRIPTION AND MARK ALLOCATION
SECTION A	Part 1 - Multiple Choice Questions – 10 Marks Part 2 – True or False – 10 Marks Part 3 – Fill in the Blanks – 10 Marks
SECTION B	Short Answer Questions – 30 Marks
SECTION C	Long Answer Questions – 40 Marks

Write the most appropriate answer of your choice in the answer booklet

1. Which pasture was introduced in Fiji in 1887?
 - A. Koronivia grass
 - B. Panola grass
 - C. Para grass
 - D. Batiki blue

2. The scientific name for Para grass is
 - A. *Brachiaria mutica*
 - B. *Trisacum andersonii*
 - C. *Setaria sphacelata*
 - D. *Panicum maximum*

3. Grass usually have perfect flowers arranged in a
 - A. Spikelet
 - B. Floret
 - C. Rachilla
 - D. Lemma

4. Planting pasture where there is no existing pasture is called
 - A. Forage
 - B. Grass
 - C. Pasture establishment
 - D. Inoculation

5. In order to store green crops in a stack the moisture content should be reduced to
 - A. 10-15%
 - B. 5-10%
 - C. 15-20%
 - D. 20-30%

6. Grazing management that involves giving livestock a fresh allocation of pasture each a day
 - A. Creep grazing
 - B. Strip grazing
 - C. Rotational grazing
 - D. Intensive grazing

7. The number of animals on a given amount of land over a certain period of time is
- A. Stocking rate
 - B. Animal unit
 - C. Carrying capacity
 - D. Grazing pressure
8. Which of the following is an annual legume fodder?
- A. Sorghum
 - B. Stylo
 - C. Cowpea
 - D. Guatemala
9. It is important to store grass seeds for
- A. 3-6 months
 - B. 1-2 months
 - C. 1 year
 - D. 6 months
10. A system with more than one pasture in which livestock are allowed to periods of grazing and rest for forage
- A. Simple rotation grazing
 - B. Intensive grazing
 - C. Extensive grazing
 - D. Strip grazing

PART 2**TRUE OR FALSE****[10 Marks]**

In the Answer booklet provided write "TRUE or FALSE" if the statement is correct and "FALSE" if the statement is incorrect.

Sl.no.	Statements	T or F
1	Animals generally graze 7-12 hours a day	
2	Adequate lime is necessary for forage establishment	
3	The advantage of establishing rotational grazing is having the highest forage production and use per acre	
4	Sheep and goat are selective grazers	
5	Cowpea can be used as fodder crop	
6	Every livestock operation has an appropriate stocking rate	
7	Forage demand is the amount forage required to sustain a grazing animal over a specified period of time	
8	There are six stages in the ensiling process	
9	Corn and sorghum are known as fodder crops	
10	Legumes may cause bloating in animals	

PART 3**FILL IN THE BLANKS****[10 Marks]**

Fill in the blanks to complete the following statements. Write your answers in the answer booklet.

1. When grazing is good, cattle and sheep take _____ bites a day.
2. _____ is grass that is cut, dried and stored by human to be used at a later date.
3. _____ consists of preserving green forage crops under anaerobic conditions ensuring they remain in a succulent and appetizing state.
4. _____ a properly prepared seedbed is key step in pasture establishment.
5. _____ a lactating 1000- pound with a with a calf.
6. _____ is the process of introducing commercially prepared rhizobium bacteria into the soil.
7. _____ planting pasture where there is no existing pasture.

8. Pasture plants that are eaten by grazing animals are collectively described as _____.
9. Proportion of pure seeds germinating in a fixed time under standard laboratory condition is defined as _____.
10. _____ management uses additional inputs of resources to increase livestock production per acre.

SECTION B

SHORT ANSWER QUESTIONS
[Each question is worth 3 marks]
All are compulsory

[30 Marks]

1. Define the following terms:
 - a. Rotational pasture
 - b. Silage
 - c. Stock density
2. What is the importance of quality seed and list the factors affecting the quality of seed?
3. Name three types of pasture grown at the FNU livestock farm.
4. Explain annual and perennial pastures with examples.
5. Briefly explain three different types of hay.
6. Name three types of fencing systems used on a livestock farm.
7. What is the carrying capacity of 100 acre pasture with an available forage production of 4376 lb. dry matter?
8. Explain the advantages of lucerne plant as fodder crop.
9. Describe 2 methods of seed treatment in pasture.
10. What are legumes and list its importance.

SECTION C

LONG ANSWER QUESTIONS

[40 Marks]

This section consists of 5 long answer questions.

Answer any four questions from the choices given below.

Each Question is worth 10 Marks

1. Determine three types of grazing methods in pasture. (10 Marks)
2. Explain the steps that are involved in pasture establishment (10 Marks)
3. Outline and describe the basic methods of hay making. (10 Marks)
4. Describe the feeding behavior of the following animals: sheep, cattle and goat. (10 Marks)
5. Discuss the advantages and disadvantages of continuous stocking. (10 Marks)

The End