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University Examinations 2012/2013

FIRST YEAR, FIRST SEMESTER, EXAMINATION FOR CERTIFICATE IN AGRICULTURE
AND DIPLOMA IN AGRICULTURAL EDUCATION AND EXTENSION

AGR 0123: FODDER AND PASTURES MANAGEMENT

DATE: AUGUST 2013

TIME: 1 ½ HOURS

INSTRUCTIONS: Answer question *ONE* and any other *TWO* questions

QUESTION ONE (30 MARKS)

- a) As an agricultural extension officer working in Nkomo ward, what would you give as factors restricting the success of pasture establishment to Wendo Women Group interested in dairy keeping enterprise? (6 Marks)
- b) What do you understand by the following terminologies? (5 Marks)
- Pasture
 - Browse
 - Ley
 - Roughage
 - Grassland
- c) Give five types of classes and an example of a plant in each of these as per the forage crop classification order based on the type of plant they are and the way they are used to feed livestock. (5 Marks)
- d) Both macro and micro elements are considered to be very important in pasture management. Explain how the two are important. (2 Marks)
- e) In livestock production it has been claimed that “one of the biggest challenges facing livestock production enterprise in the tropics is the effect of seasonality”. Discuss. (4 Marks)
- f) As an officer in charge of dairy enterprise in a farm, what would you give as the objectives of pasture management? (2 Marks)

- g) In pasture and fodder production management weeds have been noted to be an important factor. Explain 3 weed control methods. (3 Marks)
- h) Give three qualities for selection of a good pasture grass or legume. (3 Marks)

QUESTION TWO (15 MARKS)

Fodder conservation is appreciated as one way of effective and efficient way of utilizing fodder materials. In view of this give a detailed account on how to make hay.

QUESTION THREE (15 MARKS)

- a) In the tropics livestock is kept for various reasons. Give any four reasons for this.(4 Marks)
- b) What do you understand by the following terminologies?
- i. Nurse crop. (2 Marks)
 - ii. Seed dormancy (2 Marks)
 - iii. Seed longevity (2 Marks)
 - iv. Re-seeding (2 Marks)
- c) What do you understand by the following terms? (3 Marks)
- i. Mesophyte
 - ii. Hydrophyte
 - iii. Forage conservation

QUESTION FOUR (15 MARKS)

“TUMBUKIZA METHOD OF NAPPER ESTABLISHMENT” has been appreciated as an appropriate technology in dairy enterprise. As a farm manager prepare notes for teaching farmers from Maendeleo Dairy Co-operative society members on education tour to the farm. (15 Marks)

QUESTION FIVE (15 MARKS)

- a) Give three reasons why grasses are considered suitable herbage plants. (3 Marks)
- b) Outline four constraints regarding forage production. (4 Marks)
- c) What do you understand by the following terms as used in fodder and pasture management.
- i. Seed inoculation. (2 Marks)
 - ii. Hay (2 Marks)
 - iii. Seed treatment (2 Marks)
 - iv. Silage (2 Marks)