****

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**P.O. Box 972-60200 – Meru-Kenya.**

 **Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254 789151411**

**Fax: 064-30321**

**Website:** [**www.must.ac.ke**](http://www.must.ac.ke) **Email:** **info@must.ac.ke**

**University Examinations 2015/2016**

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE CERTIFICATE IN AGRICULTURE

**AGR 0123: PASTURES AND FODDER MANAGEMENT**

**DATE: NOVEMBER 2015 TIME: 11/2 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Briefly describe the Savanna Vegetation in Kenya. (8 Marks)
2. What is over sowing and its advantages in forage establishment (4 Marks)
3. Discuss lucern under the following subheadings
4. Field establishment (10 Marks)
5. Fertilizer requirement (2 Marks)
6. List the factors that determines hay quality (6 Marks)

**QUESTION TWO (15 MARKS)**

1. Explain the following:
2. Long day plants (2 Marks)
3. Short day plants (2 Marks)
4. Day neutral plants (2 Marks)
5. Discuss Tumbukiza in Napier establishment (9 Marks)

**QUESTION THREE (15 MARKS)**

1. What is forage ecology in pasture management (2 Marks)
2. List five climatic factors affecting forage crops (5 Marks)
3. What is edaphic, and what role does it play in forage crops (4 Marks)
4. What is seed treatment and what are some techniques involved. (4 Marks)

**QUESTION FOUR (15 MARKS)**

1. Explain the following as used in forage crops:
2. Herbage (2 Marks)
3. Cereal forage (2 Marks)
4. Browse (2 Marks)
5. Give factors that determine quality of silage (6 Marks)
6. What are some of the forage management practices that can overcome challenges of forage seasonality in livestock keeping in Kenya. (3 Marks)