ACP 803



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS MAIN EXAMINATION

FOR THE DEGREE OF MASTERS IN:

AGRICULTURE EDUCATION AND EXTENSION

COURSE CODE: ACP 803

COURSE TITLE: PASTURE AND FODDER CROPS

DATE: 17.04.2023

TIME: 2-5PM

INSTRUCTIONS TO CANDIDATES

Answer FOUR questions

SECTION A: Answer FOUR questions (60 Marks)

1. The vicious cycle of livestock deaths in the arid and semi-arid lands (ASALs) of Kenya due inadequate forage is a threat to the livelihood of the people. As a forage scientists discuss innovative technological approaches that can contribute to future forage availability in in the ASALs.

(15 marks)

- 2. Discuss opportunities/strategies within forage production and dairy cattle feeding practices that can reduce emission of greenhouse gases in smallholder crop-livestock system. (15 marks)
- 3. Forage conservation is a promising strategy to make forage feeds available throughout the year in the smallholder crop-livestock mixed.
 - (a) Discuss in detail the plant, conservation process and storage factors that affect feed value of conserved forages.(10 marks)
 - (b) Give FIVE reasons as to why forage conservation has not been widely adopted in sub-Saharan Africa. (5 marks)
 - Discuss TWO forage intensification strategies that can sustainably increase feed availability in smallholder crop-livestock mixed farming system. (15 marks)
 - Discuss the processes involved in ensuring that Napier grass planting materials supplied to farmers are free from Napier stunt and Napier head-smut diseases.
 (15 marks)