



MERU UNIVERSITY COLLEGE OF SCIENCE & TECHNOLOGY

P.O. Box 972-60200 Meru - Kenya. Tel: 020-2092048, 020 2069349
Fax: 020-8027449

University Examinations 2011/2012

FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR
OF SCIENCE IN FOOD SCIENCE AND NUTRITION AND BACHELOR OF SCIENCE IN
FOOD SCIENCE AND TECHNOLOGY AND BACHELOR OF SCIENCE IN
HORTICULTURE

AHS 2101: INTRODUCTION TO AGRICULTURE AND AGROMETEROROLOGY

DATE: APRIL 2012

TIME: 2 HOURS

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

QUESTION ONE (30 MARKS)

- a. Briefly define the following terms
 - i. Optimum temperature. (2 Marks)
 - ii. Light saturation point. (2 Marks)
- b. Explain how land tenure influences Agriculture. (4 Marks)
- c. i) What is soil pH. (2 Marks)
ii) Explain how soil pH influence crop production. (3 Marks)
- d. Explain how drought affects animal production system. (4 Marks)
- e. briefly describe how the following human factors influences agriculture
 - i. Human diseases. (2 Marks)
 - ii. Capital (2 Marks)
- f. i) What is sustainable agriculture as used in the present day agriculture? (3 Marks)
ii) What is global warming? (2 Marks)
iii) Give three positive effects of extreme events on agriculture. (3 Marks)
- g. Define the term organic farming. (1 mark)

QUESTION TWO (20 MARKS)

- a. Discuss how global warming is likely to affect agriculture in the negative sense. (10 Marks)
- b. Green revolution brought in social economic impacts. Briefly explain how it influenced the social economic life of people. (10 Marks)

QUESTION THREE (20 MARKS)

- a. State any two direct and two indirect effects of wind on crop protection. (4 Marks)
- b. Explain what you understand about C.E.C. (4 Marks)
- c. Give four ways in which domesticated animals differs from their wild relatives. (4 Marks)
- d. Altitude influences agriculture. Discuss. (8 Marks)

QUESTION FOUR (20 MARKS)

- a. Explain why majority of African countries have failed to adopt the Mexican and Indian concepts of green revolution. (8 Marks)
- b. State any four ways by which crops spread from areas of origin to the present day areas of production. (4 Marks)
- c. Government has a direct influence on agriculture. Explain how it influences agriculture. (8 Marks)

QUESTION FIVE (20 MARKS)

- a. What is stress as used in animal production? (2 Marks)
- b. Using examples state any three factors which affects the well being of fish. (6 Marks)
- c. Explain how high temperatures influences animal production. (6 Marks)
- d. i) What is photoperiodism? (2 Marks)
ii) How does light duration affect the distribution of crops? (2 Marks)