



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 Email: info@must.ac.ke

University Examinations 2013/2014

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR CERTIFICATE/DIPLOMA IN
AGRICULTURE

BIO 0110 – AGRICULTURAL BOTANY

DATE: DECEMBER 2013

TIME: 1 $\frac{1}{2}$ HOURS

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

QUESTION ONE – 30 MARKS

- (a) Distinguish between evaporation and transpiration. (4Marks)
- (b) State five ways of breaking seed dormancy. (5Marks)
- (c) Outline four factors that affect growth in plants. (4Marks)
- (d) Explain the deficiency symptoms of plants growing in nitrogen deficit soils. (5Marks)
- (e) Outline the four characteristics of meristematic tissues. (4Marks)
- (f) State five differences between monocot and dicot plants. (5Marks)
- (g) State three characteristics of insect pollinated flowers. (3Mark)

QUESTION TWO – 15 MARKS

Discuss the factors that affect the rate of respiration. (15Marks)

QUESTION THREE – 15 MARKS

Briefly describe the main pigments that are involved in photosynthesis. (15Marks)

QUESTION FOUR – 15 MARKS

Discuss factors affecting the rate of transpiration. (15Marks)

QUESTION FIVE – 15 MARKS

Discuss the diversity of plants with respect to roots and stems. (15Marks)