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University Examinations 2013/2014

FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURE
AND
FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR CERTIFICATE IN
AGRICULTURE

BIO 0110: AGRICULTURAL BOTANY

DATE: APRIL 2014

TIME: 1 ½ HOURS

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

QUESTION ONE – (30 MARKS)

- (a) Define the following terms as used in floral biology;
- | | |
|--------------------|-----------|
| (i) Protandry | (2 Marks) |
| (ii) Mono e cious | (2 Marks) |
| (iii) Gamesepalous | (2 Marks) |
| (iv) Inflorescence | (2 Marks) |
- (b) Outline the importance of botany in Agriculture. (4 Marks)
- (c) State the types of tissues found in plants. (3 Marks)
- (d) Explain the characteristics of meristematic tissues. (4 Marks)
- (e) Briefly describe the importance of classification in biology of plants. (4 Marks)
- (f) Outline five characteristics of insect pollinated flowers. (5 Marks)
- (g) State two causes of seed dormancy. (2 Marks)

QUESTION TWO – (15 MARKS)

Discuss double fertilization in flowering plants. (15 Marks)

QUESTION THREE – (15 MARKS)

Explain how the plant leaves are adapted to the process of photosynthesis. (15 Marks)

QUESTION FOUR – (15 MARKS)

Discuss how fruits and seeds are adapted to dispersal. (15 Marks)

QUESTION FIVE – (15 MARKS)

Explain how the plant cell is organized to its functions. (15 Marks)