

UNIVERSITY EXAMINATIONS



(Knowledge for Development)

# KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2016/2017 ACADEMIC YEAR

FIRST YEAR SEMESTER ONE

SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF Bsc.

COURSE CODE: SAB 101

COURSE TITLE: AGRICULTURAL BOTANY

DATE: 14<sup>TH</sup> SEPT.2017

TIME: 8 AM – 10 AM

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## INSTRUCTIONS TO CANDIDATES

Answer Question One and Any other TWO (2) Questions.

TIME: 2 Hours

This Paper Consists of 2 Printed pages Please Turn Over.

**Question 1 (30mks)**

- a) Differentiate between autogamy and geitonogamy as used in plant pollination (6mks)
- b) Describe the general structure of lichens (2mks)
- c) Outline the role of magnesium in plant nutrition (4mks)
- d) List and explain briefly various tissues in plants (10mks)
- e) What do you understand by "alternation of generations" (2mks)
- f) Describe the development of the megaspore in angiosperms (6mks)

**Question 2**

- a) Identify and explain three divisions of cryptogams (10mks)
- b) List and explain advantages and disadvantages of cross pollination in plants (10mks)

**Question 3**

- a) Describe the process of fertilization in flowering plants (10mks)
- b) Giving examples describe dry fruits (10mks)

**Question Four**

- a) Describe the process of Krebs cycle during aerobic respiration in plants (10mks)
- b) Discuss major classes of gymnosperm (10mks)