



UNIVERSITY OF KABIANGA

UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR THIRD YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AND

BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE: BOT 313

COURSE TITLE: PLANT PHYSIOLOGY I

DATE: 29TH AUGUST, 2017 TIME: 11.30 A.M. – 2.30P.M.

INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF (2) PRINTED PAGES

PLEASE TURN OVER

SCHOOL BASED

UNIVERSITY OF KABIANGA
UNIVERSITY EXAMINATIONS 2016/17 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER MAIN EXAMINATIONS
(SCHOOL BASED)

BOT 313: PLANT PHYSIOLOGY I

TIME: 3 HOURS

SECTION A (28mks): Answer ALL questions in this section

1. State the importance of water in a plant (4mks)
2. Summarize the process of photosynthesis (4mks)
3. Draw a well labeled diagram of the chloroplast (5mks)
4. What are the causes of photorespiration in plants (3mks)
5. Give the harmful effects of transpiration (4mks)
6. Using examples distinguish between sources and sinks (4mks)
7. a) Name two photosynthetic pigments (2mks)
b) What is the importance of accessory pigments (2mks)

SECTION B (42Mks): Answer any THREE questions in this section

8. a) Apart from Auxins name other four major classes of plant hormones (4mks)
a) Discuss the physiological effects of Auxins (10mks)
9. Write short notes on the reactions involved in glycolysis (14mks)
10. Explain the **types** and **factors** affecting transpiration (14mks)
11. Discuss the factors affecting the process of photosynthesis (14mks)