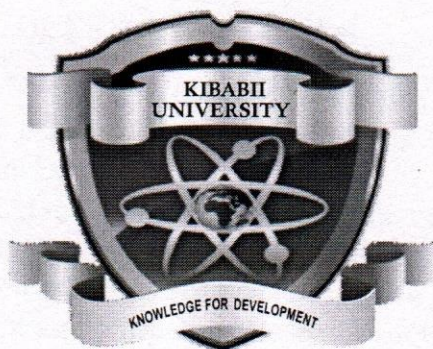


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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2016/2017 ACADEMIC YEAR

THIRD YEAR 1ST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY**


COURSE CODE: SAB 333
COURSE TITLE: CROP PHYSIOLOGY

DATE: 11TH SEPT. 2017 TIME: 11:30 AM – 1:30 PM

INSTRUCTIONS TO CANDIDATES

Answer all Questions in section A and any other two (2) Questions in section B.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn Over 

KIBU observes ZERO tolerance to examination cheating

SECTION A – ANSWER ALL QUESTIONS (30 marks)

- 1a) Briefly discuss the role of Nitrogen in plant growth and yield. (5 marks)
- b) Identify FIVE negative effects of heat stress (high temperature) on reproductive growth and yield of cereal crops. (5 Marks)
- c) Explain FIVE factors that are responsible for the success of angiosperms.(5 marks)
- d) Discuss the agricultural use of Gibberellin on plant growth. (5 marks)
- e) Outline the process of symbiotic nitrogen fixation in grain legumes (5 marks)
- f) Briefly explain how light and temperature affects photosynthesis (5 Marks)

SECTION B: ANSWER ANY TWO QUATIONS (40 marks)

- 2. Discuss strategies of crop improvement for water deficit and heat stress tolerance. (20 marks)
- 3. Discuss the physiological process involved in seed germination and the causes of seed dormancy. (20 marks)
- 4. Discuss the agricultural uses of Auxin and Gibberrelins (20 marks)