



UNIVERSITY OF SWAZILAND

RESIT/ SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION, YR 2
 BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION, YR 3
 BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION, YR 2
 BACHELOR OF SCIENCE IN AGRONOMY, YR 2
 BACHELOR OF SCIENCE IN AGRONOMY, YR 3
 BACHELOR OF SCIENCE IN HORTICULTURE, YR 2
 BACHELOR OF SCIENCE IN HORTICULTURE, YR 3

COURSE CODE: CP305/CPR203

TITLE OF PAPER: CROP PHYSIOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION 1

Describe briefly how auxin regulates the following developmental phenomena: cell elongation, apical dominance, leaf abscission, vascular differentiation, floral and fruit development.

(25 Marks)**QUESTION 2**

Compare and contrast the light compensation point and the CO₂ compensation point.

(25 Marks)**QUESTION 3**

- a) What is a mineral deficiency? (5 marks)
- b) Using examples, show how a mineral deficiency can be recognized? (10 marks)
- c) How can farmers benefit from plant nutrient analysis? (10 marks)

(25 Marks)**QUESTION 4**

"Photosynthesis is the opposite of respiration". Explain whether this statement is appropriate.

(25 Marks)