



“Investing in Africa’s future”

**COLLEGE OF HEALTH, AGRICULTURE & NATURAL
SCIENCES**

NACP 211: CROP PHYSIOLOGY

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOVEMBER/ DECEMBER 2022

LECTURER: MR. MTAITA T A.

DURATION: 3 HOURS

INSTRUCTION

Choose and answer **four** questions

Question One

- a) Analyze the significance of abscission in crop plants. **[5]**
- b) Discuss the concerns of a crop physiologist in Agriculture. **[20]**

Question Two

- a) Analyze the attributes governing yield when:
 - i) Water is limiting **[5]**
 - ii) Solar radiation is limiting **[5]**
- b) With the aid of practical examples, examine the significance of the different plant growth hormones **[15]**

Question Three

- a) Examine the causes of senescence in crop plants **[5]**
- b) With the aid of realistic examples, analyze why there is no one constellation of characters that farmers can adopt in producing their crops. **[20]**

Question Four

- a) Discuss the external and internal factors affecting crop growth. **[10]**
- b) Examine the factors that influence the rate of photosynthesis. **[15]**

Question Five

- a) Write an essay with the title "Past, Present and Future of crop physiology in Agriculture. **[10]**
- b) Examine the growth parameters that are commonly used in agriculture research. **[15]**

END OF EXAMINATION PAPER