



2ND SEMESTER 2017-2018

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2

COURSE CODE: CPR202

TITLE OF PAPER: ANNUAL CROPS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER QUESTIONS 1 & 2 AND ANY OTHER TWO QUESTIONS.

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COURSE CODE: CPR202 (M) 2017-2018

QUESTION 1 - COMPULSORY

Write an extension type guideline for use by extension workers to give advice in the production of tobacco seedlings starting with site selection up to the stage of transplanting into a field.

[25 Marks]

QUESTION 2 - COMPULSORY

Discuss the challenges faced by Africa in the production of the five major cereals rice, maize, millet, sorghum and wheat.

[25 Marks]

QUESTION 3

- a) Discuss the use of inoculant for soybeans and give a step by step outline of how you would inoculate soybean seed. (10 marks)
- b) Describe the factors that determine the most suitable planting date for dry beans. (5 marks)
- c) Explain the relationship between nodulation, dry matter and grain yield (10 marks)

[25 Marks]

QUESTION 4

- a) Explain how you would deal with the problem of *Fusarium* cob rot in a maize crop. (5 marks)
- b) Explain the risks of deep planting of maize seed and describe the recommended practice. (5 marks)
- c) Describe the tools available to the maize producers under both drier and high rainfall production regions to mitigate the incidence of drought stress during the period of pollination? (5 marks)
- d) Discuss the ecological requirements for maize production (10 marks)

[25 Marks]

QUESTION 5

Describe the cultivation of cotton under each of the following headings:

- a) Climatic and soil requirements (5 marks)
- b) Seed-bed preparation (5 marks)
- c) Fertiliser requirements (5 marks)
- d) Insect pest and disease control (5 marks)
- e) Productivity (yield per hectare) (5 marks)

[25 Marks]