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2ND SEMESTER 2012/2013

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY YEAR FOUR (4)

COURSE CODE: CP 405

TITLE OF PAPER: CEREAL AND LEGUME CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS

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THE CHIEF INVIGILATOR**

COURSE CODE: CP405 (M) 2012/2013

QUESTION 1

Discuss the agronomic aspects of soybean (Glycine max) production in Southern Africa, under the following headings:

- a) Tillage (5 marks)
 - b) Time of planting (5 marks)
 - c) Plant population on yield (5 marks)
 - d) Fertilizer response, water requirement and management (5 marks)
 - e) Crop sanitation – weed, pest and disease control (5 marks)
- [25 Marks]**

QUESTION 2

A common complaint about grain legumes concerns their low yield level when compared to cereals. Discuss the reasons for the low yields and propose how they could be addressed for both the commercial farmer and smallholder farmer.

[25 Marks]

QUESTION 3

Write an essay on conservation agriculture.

[25 Marks]

QUESTION 4

Discuss the effect of different agro-climatic factors on nodulation, i.e., factors influencing *Rhizobium* survival, nodulation and nitrogen fixation

[25 Marks]

QUESTION 5

Discuss the main reasons why wheat is not grown in Swaziland on a large scale and suggest how production can be increased.

[25 Marks]