



UNIVERSITY OF ESWATINI  
RESIT EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR 1

COURSE CODE: CPR102

TITLE OF PAPER: INTRODUCTION TO AGRONOMY

TIME ALLOWED: 2 HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

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THE CHIEF INVIGILATOR

QUESTION 1

- a] Discuss two advantages of intercropping and two disadvantages [8 marks]
- b). A farmer intends to grow sorghum in a 0.4 ha field.
- i] After soil tests, he is advised to apply 1.5t/ha of dolomitic limestone, how many 50 kg bags should he purchase? [4 marks]
- ii] The plant spacing is 80 cm by 15 cm with two [2] plants per station, calculate the number of plants in the farmer's field. [4 marks]
- iii] The farmer intends to top-dress with 150 kg/ha of LAN using the placement/dollop method, how much should he apply per planting station. [4 marks]
- iv] After harvesting the entire field, the farmer got 450 kg of sorghum. Calculate his grain yield at 12.5% moisture content expressing your answer in t/ha. [4 marks]
- [25 marks]

QUESTION 2

Discuss the advantages and disadvantages of organic manures. [25 marks]

QUESTION 3

Distinguish between the following terms. Use examples to illustrate your answers.

- a). Sink and source [4 marks]
- b). straight and compound fertiliser [4 marks]
- c). Top-dressing and side-dressing of fertiliser [4 marks]
- d). Grain legume crops and pulses [4 marks]
- e). Liming material and soil conditioner [5 marks]
- f). Additive and replacement series in intercropping [4 marks]

QUESTION 4

- a) Describe a cropping system [5 marks]
- b) Discuss any four cropping systems that can be practiced in Eswatini, stating the merits and demerits of each system [20 marks]
- [25 marks]