

UNIVERSITY OF ESWATINI RESIT EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN ANIMAL SCIENCE 2

BACHELOR OF ANI. SCI. DAIRY YEAR 2

BACHELOR OF SCIENCE IN AGRIC. ECON & AGRIC. BUSINESS MANAGEMENT YEAR 2

COURSE CODE:

CPR211

TITLE OF PAPER:

PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED:

2 HOURS

INSRUCTIONS:

ANSWER QUESTIONS 1 [COMPULSORY] AND ANY OTHER THREE [3] QUESTIONS OF YOUR CHOICE

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QUESTION 1 [COMPULSORY QUESTION]

A farmer in the Upper Middleveld intends to grow field beans. Advise the farmer under the following headings;

a.	Seedbed preparation	(5 marks)
b.	Time of planting	(5 marks)
c.	Fertiliser application	(5 marks)
d.	Disease and pest avoidance	(5 marks)
e.	Harvesting and storage	(5 marks)

[25 marks]

QUESTION 2

Differentiate between the following and give examples where possible.

b) c) d) e)	Conventional tillage and minimum tillage Major nutrient and minor nutrient Fertilisers and manures Cash crop and catch crop Interspecific and intraspecific crop competition Green manure crop and companion crop	[5 marks] [4 marks] [4 marks] [4 marks]
T)	Green manure crop and companion crop	[4 marks]

[25 marks]

QUESTION 3

- a). Explain how weeds are harmful to crops. [4 marks]
- b). Also explain integrated weed management. [4 marks]
- c). Describe how Nicolai Vavilov came up with the centres of origin for crops

[8 marks]

d). How does seed dormancy promotes Agrobiodiversity.

[4 marks]

e). A maize farmer has been advised to plant maize at a seed rate of 25 kg/ha. However, after conducting a simple germination test she got 60 %. Advise the farmer on her next move as she prepares for planting.

(5 marks)

[25 marks]

QUESTION 4

a) Define Integrated Pest Management (IPM)

[3 marks]

b) List the six (6) Principles and practices of an IPM programme.

[12 marks]

c) List five (5) ways that a farmer can use to prevent the introduction of weeds in his or her field.

[10 marks]

[25 marks]

QUESTION 5

a) What is crop density?

[3 marks]

b) Discuss two advantages and two disadvantages of the rectangular planting pattern.

[12 marks]

b) Discuss any two cropping systems that can be practiced in Eswatini stating the merits and demerits of each system [10 marks]

[25 marks]