



UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR THREE

COURSE CODE: CP 408

TITLE OF PAPER: WEED MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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QUESTION 1

In general, weeds differ from the crops with which they compete in a variety of ways. Clearly describe this difference citing appropriate examples of both.

(25 Marks)

QUESTION 2

Developing an effective chemical weed control program requires careful consideration of a number of factors. Describe them giving brief justification.

(25 Marks)

QUESTION 3

a) What is the difference between herbicide-resistant crops and herbicide-resistant weeds. (5 Marks)

b) Describe five (5) demerits of herbicide resistant crops.

(10 Marks)

c) Describe five (5) useful management strategies for herbicide-resistant weeds

(10 Marks)

(Total, 25 Marks)

QUESTION 4

Clearly distinguish the weed flora under no-till mulch-based conservation agriculture with that under tractor-tilled conventional agriculture practices. Give appropriate reasons.

(25 Marks)

QUESTION 5

The data in Table 1 below demonstrate the influence of soybean row spacing on weed problems. Note that soybeans received a postemergence herbicide in all row spacings. The data focus on weed resurgence after that postemergence application.

- (a) Interpret the data and give justifications for your observations
(b) Based on your knowledge of weeds, crops and their interaction, what else should have been included in the study. Give reasons.

(25 Marks)

Table 1:

Row spacing (cm)	Weed density (No./10 m ²)	Weed biomass (g/10 m ²)
23	37	300
46	67	620
92	1260	1250