



UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY, YEAR FOUR

COURSE CODE: CP 408

TITLE OF PAPER: WEED MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: THE PAPER HAS TWO PARTS. ANSWER ALL QUESTIONS IN PART 1 AND TWO QUESTIONS IN PART 2

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PART 1: ANSWER ALL QUESTIONS

QUESTION 1

Weeds remain pervasive in crop production because they are not a political problem. Discuss the justification of this statement.

(25 Marks)

QUESTION 2

Figure 1 below shows three ways herbicides may be applied to minimize competition from growing weeds. For each situation, (a) explain the principles that must be known, (b) the practices that must be followed, and (c) examples of situations where the application method may be used.

(25 marks)

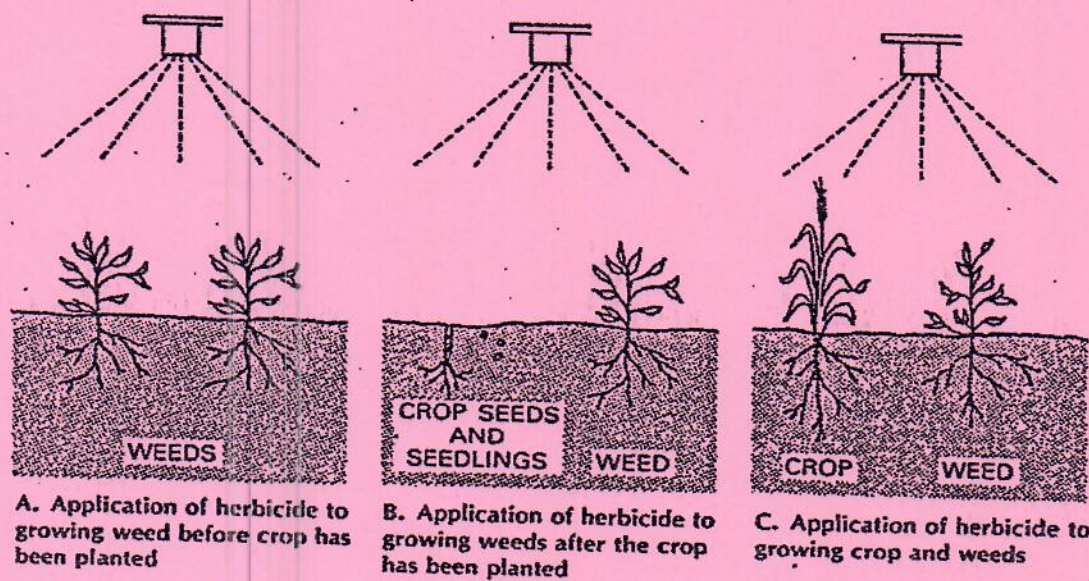


Fig 1. Ways herbicides may be used to minimize competition from growing weeds

PART 2: ANSWER TWO QUESTIONS ONLY

QUESTION 3

Describe four mechanisms and accompanying appropriate examples responsible for change in weed populations. Identify one practical solution to each situation described.

(25 Marks)

QUESTION 4

a) Describe and appropriately distinguish two (2) above ground and two (2) below ground vegetative reproductive organs weeds possess

(8 marks)

b) Using one above ground and below ground organ identified in (a) respectively, explain why the vegetative reproductive organ makes weeds hard to control.

(7 marks)

c) Describe how you would implement measures to prevent reproduction and achieve control of weeds possessing organs identified in (b).

(10 marks)

(Total 25 Marks)

QUESTION 5

Farmers refrain from using soil-applied herbicides because herbicides destroy the soil. Discuss the justification of this statement.

(25 Marks)