Weed Management and Control

Nov/Dec 2010

3 HOURS (100 Marks)

INSTRUCTIONS:
Answer Two questions from each section. Each question carries 25 Marks.

SECTION A

1. Discuss the applicability of physical weed control methods to sub-Saharan Africa. [25 marks]

2. (a) Describe stages involved in the designing a weed management program. [10 marks]

(b) Discuss various methods of cultural weed control which are at the disposal of small scale farmers in Zimbabwe. [15 marks]

3. Mechanical weed management is a strong tool for the control of weeds in both small scale and large scale farming. Describe the various ways in which weeds are controlled mechanically. [25 marks]

SECTION B

4. Discuss the cuticle as a barrier to herbicide penetration and how it can be overcome by herbicide formulation. [25 marks]

5. (a) Describe the mechanisms of action of the following group of herbicides [5 marks]
   (i) Dinitroanilines.
   (ii) Triazines. [5 marks]
(ii) Discuss the various mechanisms of herbicide selectivity. [15 marks]

6. Discuss the various factors that affect the efficacy of soil and foliar applied herbicides. [25 marks]

END OF PAPER