



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN CROP IMPROVEMENT AND PROTECTION

KST 304: WEED SCIENCE AND MANAGEMENT

DATE: WEDNESDAY, 28TH MARCH 2012

TIME: 11.00 A.M- 1.00 P.M

INSTRUCTIONS: Answer ALL Questions (40 marks)

1. Differentiate between weed free requirement and critical timing of weed removal.
[5 marks]
2. State 5 characteristics that have enabled weed to out compete crops plants
[5 marks]
3. Citing relevant examples, describe how weeds can complicate pest and disease management in cropping systems.
[5 marks]
4. State the disadvantages of asexual/vegetative reproduction as a method of weed propagation.
[5 marks]
5. Outline the procedure of herbarium preparation in weed specimens.
[5 marks]
6. Differentiate between classical and mycoherbicide approach in the use of fungi as a biocontrol agent in weed management.
[5 marks]
7. Explain the importance of sprayer calibration in herbicide application
[5 marks]
8. State five positive aspects of weed plants.
[5 marks]

Section B: Instructions Answer any TWO Question (30 marks)

9. a) Explain the principle behind flaming in killing of weed plants and cite limitations associated with it as a strategy in weed management. [7 marks]
b) Explain how weeds can be classified based on growth characteristics [8 marks]
10. Explain how artificial dispersal of weeds occurs and its implications in weed management.
[15 marks]
11. Discuss the types of dormancy mechanisms in weed seeds and how this can be broken.
[15 marks]
12. ‘ Use of herbicides as a weed management technique has safety implications’
Discuss
[15 marks]

