



KENYATTA UNIVERSITY
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURE CROP IMPROVEMENT AND PROTECTION

KST 304: WEED SCIENCE AND MANAGEMENT

2ND SEMESTER 2020/2021

TIME: 2Hours

INSTRUCTIONS: Answer **ALL** questions in **SECTION A** and **ANY 2** questions in **SECTION B**

SECTION A (40 MARKS)

1. (a) Define a weed (1 mark)
(b) List four features of a weedy plant (2 marks)
(c) List four main structures of vegetative propagation in weeds (2 Marks)
2. Outline how weeds have the ability to compete well with crops; with emphasis on growth resource capture and photosynthetic pathways. (5 marks)
3. Describe five key ways through which weeds lead to reduced yield in crops. (5 marks)
4. With the aid of a single graph define the following terms (5 marks)
(a) Critical weed free requirement
(b) Critical timing of weed control
(c) Critical period of control
5. Outline five major ways in which are categorized (5 marks)
6. Describe weed eradication and list 4 reasons why this is practically impossible. (5 marks)

7. Describe the following (5 marks)
- (a) Trade names vs Chemical names
 - (b) Residual vs Non residual herbicides
 - (c) Systemic vs Contact herbicides
8. Enumerate five broad categories of weed control measures. (5 marks)

SECTION B (30 MARKS)

9. Discuss the 'Reality of Biological Control' in weed management and give examples where this is applied in Kenya. (15 marks)
10. Write an essay on the fate of herbicides applied to plants (15 marks)
11. Define herbicide resistance and discuss the factors that may lead to development of an herbicide resistant weed population. (15 marks)