

**THIRD YEAR FIRST SEMESTER EXAMINATION**

**(For 2016/2017 Academic Year)**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE  
AND**

**HORTICULTURE**

**COURSE CODE: CRS 332**

**COURSE TITLE: WEED SCIENCE**

**INSTRUCTION TO CANDIDATES**

Answer Question **ONE** and any other **THREE**

**TIME: 3 HOURS**

**QUESTION ONE**

- (a) Define the following terminologies as used in weed science;
- (i) Noxious weed (1mark)
  - (ii) Adjuvants (1mark)
  - (iii) Pre-emergence herbicide (1marks)
  - (iv) Selective herbicide (1mark)
  - (v) Inasive weed species (1mark)
- (b) State any five characteristics of weeds (5marks)
- (c) Outline any five harmful effects of weeds (5marks)
- (d) With examples, distinguish between simple perennial and spreading perennial weeds. (4marks)
- (e) Give two reasons why a herbicide distribution permit would be in hazardous areas. (2marks)
- (f) Explain how biological method is used in the control of weeds. (4 marks)

## **QUESTION TWO**

- (a) Discuss the following methods of herbicide application;
- (i) Soil applied (5marks)
  - (ii) foliar applied (5marks)
- (b) Outline any five safety measures to be observed in the use of herbicides (5marks)

## **QUESTION THREE**

For each of the following weed families, state two main characteristic features and give an example.

- (i) Poaceae/Graminae (3marks)
- (ii) Leguminosae (3marks)
- (iii) Solanaceae (3marks)
- (iv) Cruciferae/Brassicaceae (3marks)
- (v) Cyperaceae (3marks)

## **QUESTION FOUR**

Describe either the formulation of wettable powder (WP) stating its advantages or describe the formulation of emulsifiable concentrate (AC) stating its advantages and disadvantages.(15marks)

## **QUESTION FIVE**

- a) Giving example in each case, briefly explain the mode of the following herbicides
- (i) Synthetic auxins (5marks)
  - (ii) Photosynthesis inhibitors (5marks)
- b) Briefly explain the economic importance of weeds in forests and wild lands (5marks)