

**SECOND YEAR FIRST SEMESTER MAIN EXAMINATION**

**(FOR 2016/2017 ACADEMIC YEAR)**

**FOR THE DEGREE IN BACHELOR OF SCIENCE**

**AGRICULTURAL/HORTICULTURAL**

**COURSE CODE: CRS 334**

**COURSE TITLE: ANNUAL CROP PRODUCTION AND MANAGEMENT**

**INSTRUCTION TO CANDIDATES**

Answer question **ONE** and any other **THREE** questions

Duration: **3 HOURS**

**QUESTION ONE**

- (a) Define an annual crop and give one example of such a crop. (2marks)
- (b) Highlight the differences between a seed bed and a nursery. (6marks)
- (c) Discuss how value addition can be done to sorghum as an annual crop. (6marks)
- (d) Describe four common herbicide formulations and List 2 examples of pre-emergence herbicides. (10marks)

**QUESTION TWO**

Describe the various ways in which minimum tillage can be implemented. What are its advantages over conventional counterpart? (15marks)

**QUESTION THREE**

- (a) Discuss cotton (*Gossypium hirsutum*) production constraints and Research Interventions in Kenya. (13marks)
- (b) Enumerate 4 major cotton growing regions in Kenya (2marks)

**QUESTION FOUR**

- (a) Elaborate on the current issues on sustainable production and management of annual crop production in Kenya. (15marks)

**QUESTION FIVE**

- (a) Discuss four major ways on how to control striga weed in annual crops (12marks)
- (b) Explain how alteration of ecosystem can results in pest emergence. (3marks)