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**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

 **UNIVERSITY EXAMINATIONS 2015/2016**

**YEAR I SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION/BACHELOR OF FOOD SCIENCE AND TECHNOLOGY AND FOOD SERVICE AND HOSPITALITY MANAGEMENT**

**AHS 2130: CROP PRODUCTION**

**DATE: APRIL 2016 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

**QUESTION ONE (30 MARKS)**

1. Define the following terms;
2. Biennial plant [ ½ mark]
3. Cultivar [ ½ mark]
4. Relay intercropping [ ½ mark]
5. Fertigation [ ½ mark]
6. Differentiate between the following;
7. Cover crops and catch crops. [1 mark]
8. Selective and strip picking in pyrethrum [1 mark]
9. Sole cropping and monoculture [1 mark]
10. State FOUR main classifications of cropping systems. [4 marks]
11. State FOUR principles of crop rotation [4 marks]
12. List FOUR factors in which the value of a soil in agriculture depend on. [2 marks]
13. Plant population in a given area depend on a number of factors. State FOUR factors. [2 marks]
14. List THREE advantages of timely planting. [3 marks]
15. State FOUR reasons of using vegetative methods of propagation in crops. [2 marks]
16. Timing of fertilizer application is affected by two factors. State them. [2 marks]
17. Harvesting in sisal is dictated by three main considerations. State them. [3 marks]

**QUESTION TWO (20 MARKS)**

1. Discuss FIVE soil and water management and conservation practices in improved crop production. [10 marks]
2. Discuss FIVE causes and remedies of biennial bearing in coffee. [10 marks]

**QUESTION THREE (20 MARKS)**

1. Discuss methods of pest and disease control in improved crop production. [10 marks]
2. Discuss FIVE factors that affect;
3. Pyrethrin content in pyrethrum [5 marks]
4. Cane quality in sugarcane. [5 marks]