
CHUKA



UNIVERSITY

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FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE, BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT, BACHELOR OF SCIENCE IN NATURAL RESOURCES AND BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS.

AGRI 102: PRINCIPLES OF CROP PRODUCTION

STREAMS: BSC (AGRI) Y1S1, AGBM Y2S1, NARE Y2S1 & AGECE Y2S1

TIME: 2 HOURS

DAY/DATE: MONDAY 17/12/2018

11.30 A.M - 1.30 A.M.

INSTRUCTIONS

- Answer ALL questions in Section A and any other TWO Questions in Section B
- Do not write anything on the question paper

SECTION A: ANSWER ALL QUESTIONS - [30 MARKS]

1. (a) Explain any four major roles of water in a plant. [4 Marks]
(b) Describe four cultural methods that can be used to control insect pests and diseases in our farms. [4 Marks]
2. Describe any three roles of soil on crops, and the 3 forms of water held in soils. [6 Marks]
3. Describe seven negative effects of weeds on crops. [7 Marks]
4. Describe the three types of plants depending on their photoperiodism response and explain one way photoperiodism can be manipulated in crop production. [9 Marks]

SECTION B: ANSWER ANY TWO QUESTIONS - [40 MARKS]

5. (a) Explain how soil and water erosion can be minimized and soil nitrogen replenished through crop rotation practices. [10 Marks]
(b) Discuss the advantages of intercropping system over monocropping. [10 Marks]

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6. (a) Explain five factors that may influence the efficiency of a fertilizer. [5 Marks]
- (b) Explain five advantages of using green manures in a farm. [5 Marks]
- (c) Describe the term pure live seed (PLS) and discuss storage and seed related factors that may affect seed quality. [10 Marks]
7. Describe the importance of weed removal during seedbed preparation and explain three disadvantages in clearing land through burning. [5 Marks]
- (b) Discuss factors that affect the planting density in crops. [15 Marks]
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