

Name: ..... Stream .....Signature .....

**BISHOP'S SENIOR SCHOOL MUKONO**  
**S.3 PRINCIPLES AND PRACTICES OF AGRICULTURE**  
**PAPER 1**  
**Theory Paper.**  
**TIME: 2 HOURS.**

### INSTRUCTIONS:-

- This paper consists of two parts A and B.
- Answer all questions in part A and any three questions from part B, choosing at least one question from each section.
- For Number 1, put a ring on the letter corresponding to the best answer .
- For Number 2 – 5, write the required answers in the spaces provided only.

## PART A:

1.a) Which one of the following is not a characteristic of sandy soils?

- A. Have poor water holding capacity.      B. They are well a crated.  
C. Poorly drained .                                D. They are rough textured.

b) One of the following is a chemical property of soil.

- A. soil PH.    B. soil structure.    C. soil fracture.    D. soil profile.

c) Qualities of a good fertilizer do not include;

- A. supplies the required nutrients readily.
- B. should be easy to apply.
- C. should be easy to store.
- D. should be toxic to the plants.

d) All these are examples of dairy breeds of cattle except;

- A. Friesian.      B. Aberdeen angus.      C. Jersey.      D. Gurnsey.

2. Describe 4 characteristics of a good green manure plant;

i).....

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.....ii).....

iii)

.....iii).....

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...iv).....

3. State four factors that affect response of crops to fertilizers.

- i).....  
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...ii).....  
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...iii).....  
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...iv).....  
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4. Mention four factors that influence / determine growth of crops in Uganda.

- i).....  
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...ii).....  
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...iii).....  
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...iv).....  
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5. State six importance of livestock.

- i).....  
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...ii).....  
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...iii).....  
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...iv).....  
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**PART B:**  
SECTION : I

CROP PRODUCTION.

6.a) Explain factors that affect the process of soil formation.

b) State the effects of living organisms on the process of soil formation.

7.a) Explain the importance of forests in Uganda.

b) How is the Government of Uganda trying to conserve the forests?

**SECTION II:**  
ANIMAL PRODUCTION.

- 8.a) What problems do livestock keepers in Uganda face?
- b) Suggest measures to overcome the problems of livestock production.
- 9.a) State the characteristics of Bos indicus.
- b) Outline factors that affect productivity of Bos indicus
- c) Mention measures to improve the procluctivity of Bos indicus.
- 10.a) Give for examples of dairy animals.
- b) State characteristics of a good dairy cow.
- c) Explain how a farmer can generally manage dairy cattle.

- END -

**BISHOP'S SENIOR SCHOOL MUKONO**  
**S.3 AGRICULTURE PAPER 1 .**  
**TIME: 2 HOURS**

**INSTRUCTIONS:-**

Attempt all questions in Section A and four questions in Section B; choosing at least one question from each of the sections; B, C & D.

For Examiners Use Only.		
Questions	Marks	Examiner's number
Part A:		
Part B:		
Qn.		
Qn.		
Qn.		
Qn.		
<b>Total:</b>		

**SECTION A: (20Marks)**

For question 1, write the letter corresponding to the most correct answer on the right hand- side of the question.

1.a) Which of the following nutrients is most important in the development of flowers, seeds and fruits?

- A. Nitrogen.    B. Potassium.    C. Magnesium.    D. Sulphur.

b) What is meant by seed inoculation in pasture establishment?

- A. Breaking seed dormancy of pasture seeds.  
B. Promoting nitrogen fixation in pasture.  
C. Encouraging easy rooting in seed.  
D. Protecting seeds from pest attack.

c) The initial process in mechanism of soil erosion is;

- A. dislodging of soil particles.    B. destruction of soil particles.  
C. splashing of soil particles.    D. transportation of soil particles.

d) A hard pan in soil profile refers to;

- A. a layer of rock below the soil surface.  
B. An impermeable layer below the soil surface.  
C. An impermeable layer above the soil surface.  
D. An impermeable layer on the surface.

2.a) Distinguish between macro and micro plant nutrients.    (2mks)

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b) State three importances of potassium in plants growth.    (3mks)

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ii).....  
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iii).....  
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3. State the objectives of crop improvement.    (5mks)

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4. Define the following terms; (5mks)

i) stocking rate;

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ii) Fodder crops;

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iii) Tethering;

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iv) Grazing pressure;

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5.a) Define zero grazing; (1mk)

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b) Advantages of zero grazing; (4mks)

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Answer any four questions from this section choosing at least one question from each of the sections; I, II & III.

**SECTION B: (20 Marks)**

**SECTION I: CROP PRODUCTION.**

- 6.a) Suggest reasons for the popularity of chemical weed control method. (10mks)
- b) What precautions should farmers take when applying herbicides? (5mks)
- c) State factors affecting the effectiveness of herbicides. (5mks)
- 7.a) State the qualities of a good fertilizer. (4mks)
- b) Describe the methods used in the application of fertilizers. (10mks)
- c) What factors affect response of crops to fertilizers? (6mks)

**SECTION II: ANIMAL HUSBANDRY (40 Marks)**

- 8.a) What is silage? (2mks)
- b) Describe how silage is prepared on the farm. (12mks)
- c) What factors affect the quality of silage? (6mks)
- 9.a) Outline the characteristics of a good dairy cow.
- b) Explain why most farmers in Uganda continue to rear indigenous cattle. (12mks)

**SECTION III: Mechanization and farm management.**

- 10.a) State the advantages and disadvantages of Animal power. (10mks)
- b) Explain factors that have led to the success of the use of animal power. (10mks)
- 11.a) Mention four primary tillage implements. (4mks)
- b) Explain the factors that affects the choice of farm tools and machines to buy. (16mks)

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