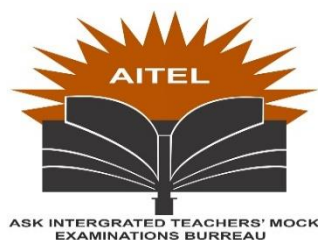


Name.....Centre/Index No:...../.....

Signature:

527/1
PRINCIPLES AND
PRACTISES OF
AGRICULTURE
(THEORY)

Paper 1
July/Aug. 2023
2 ½ hours



AITEL JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PRINCIPLES AND PRACTISES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

*Answer all questions in **Part A** and **Four** questions from **Part B**,*

*Choosing **at least one question** from each section*

PART A (20 MARKS)

Answer all questions in this part. For question 1 Write the letter corresponding to the best answer in the box provided. For questions 2 to 5, write all answers in the spaces provided.

1. a) The relationship between a cow and the microorganisms in its rumen can best be described as

A. symbiosis.
 B. parasitism.
 C. Saprophytism
 D. Commensalism.

- b) A hard pan in the 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 bedrock.
 D. An impermeable layer at the soil surface.

- c) In the reproductive system of ahen, the uterus is also referred to as the

A. isthmus
 B. infundibulum.
 C. magnum
 D. shell gland

- d) A device which mixes air and petrol in correct proportions in the petrol engine is called?

A. an injector pump.
 B. a fuel pump.
 C. a radiator
 D. a carburetor

- 2 a) Give two causes of overheating in a tractor engine. (02marks)

.....

- b) State four precautions to be taken to ensure that the cooling system of an engine works efficiently. (02 marks)

.....

3. a) State two conditions when it is necessary to use a nursery bed in crop establishment. (02 marks)

 b) Mention three advantages of using seeds for planting. (03 marks)

 4. a) What is meant by the term risk as used in farming. (01 marks)

 b) Explain four ways of minimizing risks in agricultural production (04 marks)

 5. Suggest four advantages of allowing a dry period to a dairy cow. (04 marks)

PART B: (80 MARKS)

Answer four questions from this part including atleast one question from each section. Write your answers in the answer booklets provided.

**SECTION I
MECHANISATION AND FARM MANAGEMENT**

6. a) Explain why farmers are encouraged to adopt mechanized agriculture. (10 marks)
 b) How can farmers be encouraged to mechanize their farm operations? (10 marks)
 7. a) Give the causes of fluctuations in prices of agricultural products. (10 marks)
 b) Suggest ways of reducing effects of fluctuations of prices of agricultural products.

(10 marks)

8. a) Describe the common methods of preserving wood. (12 marks)
- b) State the advantages and limitations of using metals to construct farm buildings. (08 marks)

SECTION II CROP PRODUCTION

9. a) Describe the farming practices under which soil erosion is likely to be encouraged. (08 marks)
- b) What are the effects of soil erosion to a farmer? (08 marks)
- c) Mention the mechanical methods of soil and water conservation. (04 marks)
10. a) State the problems caused by weeds in farming. (10 marks)
- b) Describe the cultural practices used in weed control. (10 marks)
11. a) Why is it necessary to dry a crop before storage? (06 marks)
- b) What are the causes of crop losses during storage? (06 marks)
- c) Suggest ways of reducing crop losses during storage. (08 marks)

SECTION III ANIMAL PRODUCTION

12. a) Outline the characteristics of a good dairy cow. (10 marks)
- b) Give reasons why most farmers in Uganda continue to rear indigenous cattle. (10 marks)
13. a) Give reasons why poultry keeping is gaining popularity in Uganda. (10 marks)
- b) State the major problems that poultry farmers in Uganda face. (06 marks)
- c) Name any four common breeds of poultry. (0 4 marks)
14. b) Describe the signs of good health in farm animals. (08marks)
- b) State the predisposing factors that cause diseases in farm animals. (04 marks)
- c) Suggest ways of preventing an outbreak of diseases among animals. (08 mark)