

# UNEB U.C.E AGRICULTURE

## THEORY PAPER 1 2004

### PART A

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

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

- A. parasitism
- B. symbiosis
- C. saprophytism
- D. commensalism

b) Which one of the following is not a variable input in farming?

- A. Fertilizers
- B. Feeds
- C. Land
- D. Labour

c) Which one of the following least affects the total pore space in a soil?

- A. Soil structure
- B. Soil organic matter
- C. Soil texture
- D. Soil pH

d) Which of the following parts of a tractor enables it to turn in a narrow space when ploughing?

- A. Front wheels.
- B. Differential
- C. Steering wheel
- D. Clutch

2. **Figure 1** shows the reproductive system of a farm animal.

a) (i) Name the parts labeled **A**, **B**, **C** and **D**.

**A**

**B**

**C**

**D**

(ii) State one function of part **C**.

b) Give three reasons why part **C** may be removed from a farm animal.

i) .....

ii) .....

iii) .....

3. Describe four desirable crop characteristics to be considered when selecting a crop variety to grow.

i) .....

ii) .....

iii) .....

iv) .....

4. Outline four characteristics that affect demand for a farm commodity

i) .....

ii) .....

iii) .....

iv) .....

5. State four advantages of using animal power in farm operations.

i) .....

ii) .....

iii) .....

iv) .....

## **PART B**

*Answer four questions from this part including at least one question from each section.*

### **SECTION I**

#### **MECHANISATION AND FARM MANAGEMENT**

6. a) Outline factors that determine a farmer's choice of tools and equipment to buy for use on a farm.

b) Explain how you would maintain farm tools and equipment in a good working condition.

7. a) Suggest what financial institutions must do to ensure that farmers use credit properly.

b) Explain how farmers should guard against risks and uncertainties to ensure profitable production.

8. a) Outline the uses of fences on a farm.

b) Describe each of the following methods of preserving fencing posts.

i) Hot and cold soaking.

ii) Sap displacement.

## **SECTION II**

### **CROP PRODUCTION**

9. a) Outline the types of damage caused by storage pests.

b) Explain the ways in which good tillage contributes to pest control in crop production.

10. a) Outline the benefits of vegetable production.

b) Explain why each of the following practices is important in tomato growing.

(i) Pruning

(ii) Staking

11. a) What is the importance of growing pastures?

b) How can a farmer improve the productivity of a pasture?

## **SECTION III**

### **ANIMAL PRODUCTION**

12. a) Describe the procedure to be followed when artificially inseminating cow.

b) Outline the advantages of artificial insemination.

13. a) Describe the features which distinguish good layers from bad ones.

b) How would one control vices in birds kept under the deep litter system?

14. a) Describe how milk is prepared for marketing on a farm.

b) How can a high quality of milk be maintained?