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527 /1

**PRINCIPLES AND PRACTICES
OF AGRICULTURE**

Paper 1

2½HOURS

2019

UGANDA CERTIFICATE OF EDUCATION

PRE MOCK EXAMINATION 2019

PAPER 1

2HOURS : 30MINUTES

Instructions to candidates

Answer All questions in part A in the spaces provided and four question from Part B with at least one question from each of the sections.

For examiners use only		
PART/QUESTION		MARK
		EXAMINER'S SIGNATURE
A		
B	Qn	
	Qn	
	Qn	
	Qn	
TOTAL		

Part A (20marks)

1. Choose the correct answer in the following questions. (2marks)

a) Which of the following Ox-plough parts ensures a smooth seed bed?

- A. Land side
- B. Share
- C. mould board
- D. Depth wheel

b) Which of the following livestock parasites require no intermediate host in life cycle?

- A. one host tick
- B. round worm
- C. liver fluke
- D. tape worm.

c) What is the specific bacteria that converts nitrites to nitrates in a nitrogen cycle?

- A. Nitrobacter
- B. Nitrosomonas
- C. Azotobacter
- D. Rhizobium

d) Which of the following farm accounts is used to calculate gross profit of a business?

- A. Profit and loss account.
- B. Farm budget
- C. Balance sheet
- D. Gross margin.

2. State four ways in which farmers can use short term credit. (2marks)

- (i)
- (ii)
- (iii)
- (iv)

b. Mention three reasons why farmers fail to get agricultural credit. (3marks)

- (i)
- (ii)
- (iii)

3a. Name two common symptoms for viral crop diseases. (2marks)

- (i)
- (ii)

b) How can viral crop diseases be controlled in the field? (3marks)

- (i)
- (ii)
- (iii)

4. Suggest four ways of ensuring high quality meat from a bull at slaughter stage. (4marks)

- (i)
- (ii)
- (iii)
- (iv)

5. Mention the four main functions of an electrical system of a farm tractor. (4marks)

- (i)
- (ii)
- (iii)
- (iv)

Part B (80marks)

Section I: FARM MANAGEMENT AND FARM MECHANIZATION.

- 6a. Outline the advantages of disadvantages dipping in tick control. (8marks)
b. Explain the preparations that are to be carried out before dipping cattle. (12marks)
- 7a. What are the benefits of keeping good farm records for farm enterprises. (10marks)
b. Mention the type of records that can be kept by a vegetable crop farmer. (10marks)
- 8a. Using a diagram, describe the working of a wet type air cleaner. (14marks)
b. How can you ensure proper working of a wet type air cleaner? (6marks)

SECTION II: CROP PRODUCTION

- 9a. Outline the characteristics of a good quality pasture species. (10marks)
b. Describe the steps to be followed when preparing good quality hay. (10marks)
- 10a. Mention six cultural practices that can be used to increase crop yields. (6marks)
b. Explain the precautions taken when storing crop produce. (14marks)
- 11a. Describe the different types of water erosion. (8marks)
b. explain how cultural practices used to control water erosion. (12marks)

SECTION III: ANIMAL PRODUCTION

- 12a. Outline the effects of ticks on farm animals. (5marks)
b. Describe the life cycle of a 3-host tick. (10marks)
c. Suggest effective control measures for ticks on the farm. (5marks)
- 13a. Mention the symptoms of mastitis infection in a dairy cow. (6marks)
b. Explain the factors that encourage development of mastitis in dairy cows. (14marks)
- 14a. What are the preparations that should be carried out before arrival of day old chicks? (8marks)
b. Explain the abnormalities that occur during the process of egg formation in a hen. (12marks)

END