

NAME:.....INDEX NO:.....

527/1  
 PRINCIPLES AND PRACTICES  
 OF AGRICULTURE  
 (Theory)  
 PAPER 1  
 2 ½ HOURS

**KCB DEPARTMENT OF AGRICULTURE**  
 MOCK 1 EXAMINATIONS, 2019  
 S.4 PRINCIPLES AND PRACTICES OF AGRICULTURE  
 PAPER 1  
 TIME: 2 ½ HOURS

**INSTRUCTIONS:**

- Answer **ALL** questions in Part A and **FOUR** questions from Part B including atleast one question from each Section.
- Each question from Section B must begin on a fresh page.

<b>FOR EXAMINER'S USE ONLY</b>		
<b>Part/Question</b>	<b>MARKS</b>	<b>INITIAL</b>
A		
B: No:.....		
No:.....		
No:.....		
No:.....		
<b>TOTAL</b>		

**PART A (20 MARKS)**

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

1. (a) Early maturity is a good characteristic in beef cattle because it:
- A. reduces chances of disease attack.
  - B. results into better quality meat.
  - C. allows for early maturity of animals.
  - D. saves on feeding costs.
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- (b) Which of the following is a part of cattle dip?
- A. Ramp
  - B. Strut
  - C. Sump
  - D. Dropper
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- (c) Which one of the following would not be a suitable method for controlling soil erosion on a steep slope?
- A. Terracing
  - B. Crop rotation
  - C. Afforestation
  - D. Strip cropping
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- (d) The land tenure system which encourages agricultural development is:
- A. free hold system
  - B. state ownership
  - C. communal tenure
  - D. land lordism
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2. (a) State any three advantages of natural incubation in poultry production. (03mks)

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- (b) Give two ways in which a brooding hen regulates temperatures of eggs during incubation. (02mks)

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3. (a) State four characteristics of subsistence farming. (02mks)

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(b) Give any 4 disadvantages of subsistence farming. (02mks)

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4. (a) Give three reasons why milk is highly perishable. (03mks)

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(b) State 2 practices that lead to milk hold up in a cow. (02mks)

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5. (a) What is diversification in farm management? (01mk)

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(b) Outline 3 disadvantages of diversification. (03mks)

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**PART B (80 MARKS)**

**SECTION I: MECHANISATION AND FARM MANAGEMENT**

6. (a) Explain the desirable features of a good calf pen. (14mks)

(b) Suggest factors to consider when locating a site for a calf pen on a farm. (06mks)

7. (a) What are the advantage and disadvantages of using animal power on farms.? (08mks)

(b) Explain factors that encourage use of ox – cultivation. (12mks)

8. (a) Explain why a farmer may change from one enterprise to another. (12mks)

(b) Outline ways in which the efficiency of production on a farm can be improved. (08mks)

**SECTION II: CROP PRODUCTION**

9. (a) Outline reasons for carrying out soil sampling. (08mks)

(b) Describe the procedure of carrying out soil sampling for laboratory analysis. (12mks)

10. (a) Describe the characteristics of a poor pasture. (08mks)  
(b) Outline factors to consider when selecting pasture species for the establishment of a pasture. (12mks)
11. (a) State advantages and disadvantages of using seeds in crop propagation. (10mks)  
(b) Give the qualities of good seeds for crop propagation. (05mks)  
(c) Suggest measures that can be taken to increase the percentage of seed germination. (05mks)

**SECTION III: ANIMAL PRODUCTION**

12. (a) What is meant by a vice in poultry management? (02mks)  
(b) Describe the common vices in a deep litter house. (08mks)  
(c) Explain ways of minimizing vices in a deep litter house. (10mks)
13. (a) Describe the characteristics of a good beef cattle breed. (06mks)  
(b) Explain the factors that should be considered when determining the size of a beef herd. (14mks)
14. (a) Give the signs of tapeworm infection in farm animals. (04mks)  
(b) Using a diagram, describe the life cycle of a tapeworm. (12mks)  
(c) State ways of controlling tapeworms. (04mks)

**END**