

AGRICULTURE

March 2019

Time: 2 ½ hours

PRIMARY TEACHERS MOCK EXAMINATION

INSTRUCTIONS TO CANDIDATES

- a) Answer **ALL** the questions in section **A** and **B**.
- b) Answer any **THREE** questions in section **C**
- c) Answers to **ALL the** questions **MUST** be written in spaces provided in this booklet.
- d) Don **NOT** remove any pages from this booklet
- e) **Candidates should answer the questions in English**

For Examiner’s Use Only

Section	Question	Maximum score	Candidate’s score
A	1-5	30	
B	6-28	40	
C		10	
		10	
		10	
		TOTAL SCORE	

This paper consists of 10 printed pages.

SECTION A (30 marks)

*Answer **ALL** the questions in this section in the spaces provided*

- 2 A science teacher decided to use photographs to teach the topic “ identification of dairy goats”
- (a) State **three** advantages of using photographs to teach the topic
(3 marks)
 - (b) State **six** characteristics of an ideal model for learning purpose
(3 marks)
- 2 a) State **two** reasons for using a table of specifications to develop a test (2marks)
- 3 a) State **four** factors that guide a teacher when preparing a lesson plan (4marks)

- b) State **three** ways in which a lesson can be introduced (3marks)
- 4 a) Give **four** reasons why a scheme of work is important in the teaching of science (4marks)
- b) Explain **two** reasons why the season of the year should be considered when preparing a scheme of work (2marks)
- 5 a) State **three** advantages of objective tests
- b) In a multiple choice science test, candidates' selection of the four options provided for a question was as follows:

OPTION	NUMBER OF CANDIDATES
A	7048
B	195
C	186
D	171

- f) If option A was the answer, determine the difficulty index of the item (2marks)
- ii) Explain the appropriateness of the question in the test (1mark)

SECTION B (40 Marks)

*Answer **ALL** the questions in this section in the spaces provided*

- 6 Give **four** roles of Agricultural Society of Kenya (2marks)
- 7 Give **four** ways in which afforestation helps in land reclamation (2marks)
- 8 Name **three** methods of breeding used in livestock rearing (1½marks)
- 9 State **six** effects of late defoliation in forage utilization (3marks)
- 10 State **four** benefits of establishing a school farm (2marks)
- 11 Give the appropriate use of each of the following tools
- a) Marking gauge (1mark)
- b) Pruning shears (1mark)
- b) Pipe wrench (1mark)
- 12 State **four** problems that hinder agricultural development in Kenya (2marks)

- 13 State **three** physical characteristics of good beef breeds (1½marks)
- 14 State **four** candling quality of good eggs for incubation 2marks
- 15 Distinguish between each of the following breeding practices
- a) crutching and ringing (1mark)
- b) tugging and serving (1mark)
- 16 Name **four** systems of rearing poultry 2marks
- 17 State **four** functions of Agricultural research services in livestock production(2marks)
- 18 Give **four** features of housing that help to control livestock diseases (2marks)
- 19 State **four** features of a clean milk man (2marks)
- 20 List **four** causes of livestock diseases (2marks)
- 21 State **four** properties of rainfall that influence crop production (2marks)
- 22 State **six** characteristics of fertile soil (2marks)
- 23 State **four** harmful effects of crop diseases (2marks)
- 24 State **four** advantages of row planting in crop production (2marks)

SECTION C (30 marks)

Answer any **THREE** questions from this section in the spaces provided after **question**

- 25 a) Explain **five** ways of adjusting to risks and uncertainties in agricultural production 5marks
- b) Explain **five** ways of improving labor productivity on the farm 5marks
- 26 a) Give **five** reasons for castrating bull calves 5marks
- b) Explain **five** factors that should be considered when siting bee hives 5marks
- 27 a) Explain **five** reasons why seeds may fail to germinate 5marks
- b) Explain **five** cultural methods used to control soil erosion 5marks
- 28 a) Give **five** reasons why sandy soil is not good for agriculture 5marks
- b) Describe **five** reasons why primary cultivation is important in crop production 5marks