

PTE MOCK EXAMINATION

2013

AGRICULTURE

MARCH EXAMINATION

MARCH, 2019

TIME: 2½ HRS

NAME: _____

INDEX NO: _____

CLASS: _____

Instructions to Candidates

1. Write your name and index number in the spaces provided above.
2. This question paper consists of **THREE** sections, **A**, **B** and **C**.
3. Answer **ALL** questions in Section **A** and **B**.
4. Answer any **THREE** questions from section **C**.
5. Answer to **ALL** the questions must be written in the spaces provided.

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SECTION	QUESTION	MAXIMUM	SCORE
A	1-6	30	
B	7-16	40	
C		10	
		10	
		10	
TOTAL SCORE			

Section A (30mks)

1. Three objectives are commonly used in teaching agriculture. Give two examples of

i) Knowledge objective

ii) Skill objective

iii) Attitudinal objective

2. Give one reason for each of the following in a scheme of work

(a) Objective column

(b) Teaching activities column

(c) Reference column

(d) Remarks column

(e) Considering season of the year

3. a. Write a multiple- choice question using the options given below

A. drilling B. dibbling C. row planting D. eating

b. Write down the Key, Ability tested, and the topic from the question you constructed

i. Key _____
ii. Ability tested _____
iii. Topic _____

c. In a multiple choice science tests, the candidates selected the four options provided for a question as follows

OPTION	NUMBER OF CANDIATES
A	7048
B	195
C	187
D	171

If option A was the key,

i) Determine the difficult index of the question (1mk)

ii) Explain the appropriateness of the question in the test (2marks)

4. Give four qualities of a good lesson objective in a scheme of work (2mks).

5. A standard **FOUR** science teacher intend to teach the sub topic “factors influencing soil erosion”

a) If the teacher decided to use demonstration method, list **THREE** teaching learning resources she would prepare (1 ½ mk)

b) If the teacher decided to use class discussion and demonstration methods of teaching, then draw up an appropriate plan to specify at least **THREE** teacher and learner activities for this lesson. (1 ½ mk)

c) Specify **THREE** problems that the teacher would face if he chose to use practical method of teaching. (1 ½ mks)

d) Give **FOUR** reasons why a quality introduction to this lesson is a prerequisite to this lesson's success. (2mk).

5. A teacher plans to teach the topic "crop propagation"

a) Identify **FIVE** materials and their sources, which the teacher would require to enable her conduct a lesson on vegetative propagation. (2 ½ mk)

b) The teacher intends to give a written test during the 25th minute and 37th minute of the lesson. Give **THREE** factors she should he consider to effectively evaluating this lesson? (1 ½ mk)

6. An agriculture teacher intend to establish a poultry farm in the school compound to be used as class seven project learning area.

a) State **THREE** ways by which the pupils will benefit from this project. (1 ½ mk).

b) Give **FOUR** site qualities to be considered before putting up the deep litter poultry structure. (4mk)

c) She intends to construct the feeders locally with the pupils,

i. Identify the **FOUR** tools the teacher will avail to be able to construct the feeders. (2mk)

ii. Specify how each of the tool identified in C (i) will be used during the project (2mk)

d) State **FOUR** types of records that the teacher will involve pupils in keeping during the project period. (4mk)

e) State **TWO** methods of motivating pupils during the project work. {2mk}

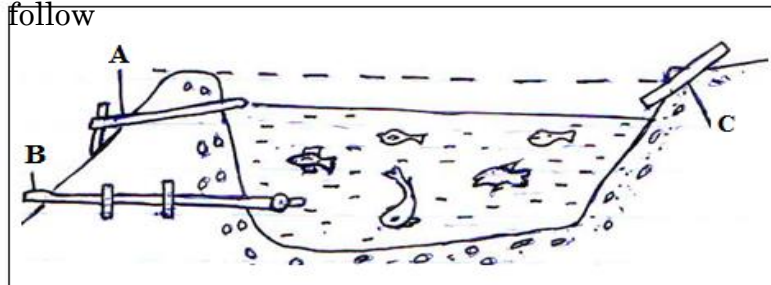
SECTION B (40 MK)

7. a) What is selection? (1mk)

b) Give one reason why you as a farmer would select the following breeds of animals for keeping. (2 ½mk)

- i. Corriedale.....
- ii. Boer goat.....
- iii. Chinchilla.....
- iv. Duroc jersey.....
- v. Aberdeen Angus

8. The diagram below shows a farm structure, study it carefully and answer the questions that follow



a) Identify the structure above _____ ½ mark)

b) Name the parts labelled A, B and C (1½ mark)
A _____ B _____ C _____

c) State four practices carried out on the above drawn structure (2marks)

9. Name any **TWO** nitrogen fixing bacteria and state their role in soil nitrates availability in the soil. (2mk)

- i.....
- ii.....

10. The table below depicts various names used in various livestock and during various stages of their management; complete the table by filling it in appropriately. (4mks)

Animal	Female livestock that has given birth	Name given to female livestock whose gestation period has not ended	Gestation period	Name given to the process of giving birth
-----	-----	285 days	Calving down
Pig		
.....	Kidding

11. Explain how the following practices may lead to loss of soil fertility (4mk)

- i. salinisation.....
- ii. ii. Soil pulverization.....
- iii. Overhead sprinkling
- iv. Control of tsetse fly through chemical spraying.....

12. State **ONE** difference between the following (4mk)

- (i) Timely seedbed preparation and a timely nursery bed preparation
- (ii) Cow's tail and a switch
- (iii) Pollen and nectar
- (iv) Pasture and fodder
- (v) Agriculture production risk and a production uncertainty

13. Mention **FIVE** safety practices you will ensure when handling bees (5 mk)

14. Give any **FIVE** principles that you will emphasize to ensure efficient utilization of forages in feeding livestock in the farm (5 mk)

15. Below is a list of agriculture organizations in Kenya. Categorize them based on the criteria specified in table below.

(Mandera irrigation scheme, 4k club, AFC, young farmers club, NCPB, KCC 2000, KTDA, KFA). (4mk)

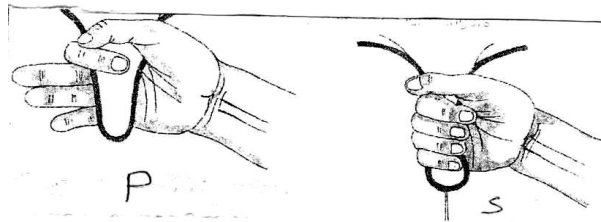
Statutory body	
Farmers organization	
Youth organization	

16. a. Give **ONE** reason for the following practices and activities in the farm (2mk)

i. Keeping breeding records

ii. Drawing a balance sheet

b. Diagrams P and S illustrates an activity carried out by a dairy farmer. Study the diagrams carefully and answer the questions that follow.



a. Identify the activity. (1/2mk)

b. State **three** preparations done to the cow before the activity takes place. (2 ½ mks)

c. Outline **one** conditions that can hinder milk let-down in a cow. (1/2 mk)

SECTION C (30 MARKS)

Answer any three questions only from this section.

17. Describe the management practices in sows from service to farrowing. (10mk)

18. You have established a beans farming project in your school for commercial purposes to support orphaned and vulnerable children. Discuss the various factors that are likely to influence change in demand for the beans once you have harvested (10mk)

19. Discuss how land settlement and resettlement contributed to agriculture development in Kenya after the European left and why it still remain a key driver to achieving vision 2030. (10mk)

20. Discuss the various agronomic cultural practices that can be used to ensure proper crop pest and disease control in the farm. (10mk)
