

MINISTRY OF EDUCATION AND HIGHER EDUCATION

FORM FOUR EXAMS, 2013

# AGRICULTURE



P/LAND NATIONAL EXAMINATION BOARD



**PART ONE: MULTIPLE CHOICE QUESTIONS. ( 10 marks ).**

**Circle the correct answer.**

1-Farming on a piece of land continuously until it is exhausted after which the farmer moves to a more fertile ground is known as :

- a- Mixed farming
- b- Organic farming
- c- Intercropping cultivation
- d- Shifting cultivation.

2- The quantity of rain that falls in a given area within a given year and measured in millimeters is known as:

- a- rainfall distribution
- b- rainfall intensity
- c- amount rainfall
- d- rainfall reliability.

3- Birds kept only for meat production are referred to as:

- a-hens
- b- broilers
- c- layers
- d-capons.

4- Crop performance is greatly influenced by the following elements **except** :

- a- air
- b- light
- c- temperature
- d- water.

5- Coating of seeds with a fungicide or an insecticide or combination of the two chemicals is termed to as:

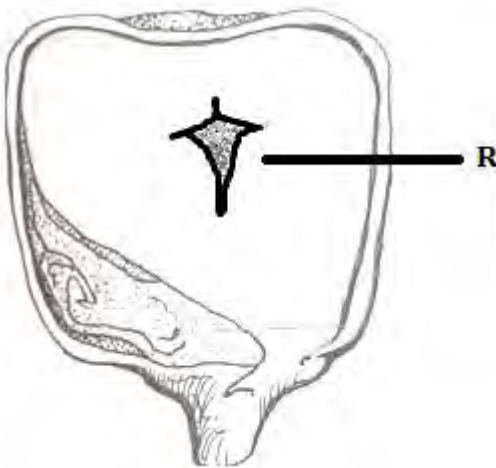
- a- seed inoculation
- b- seed dressing
- c- seed chiting
- d- seed dormancy.

6- Which one of the following is not examined by the physical appearance of the healthy animal ?

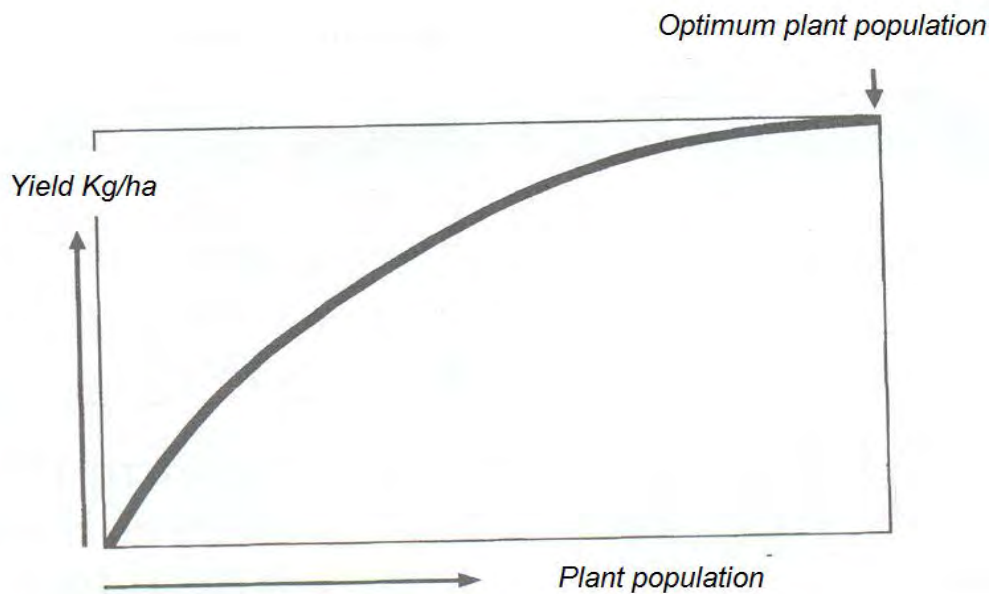
- a- movement of the animal
- b- posture
- c- physical body functions
- d- behaviour of the animal.

7- Below is a structure of a maize seed, name the part labeled R :

- a- seed coat
- b- embryo
- c- endosperm
- d- all of the above



8- The graph below shows relationship between yield and plant population:



As the yield increases, the plant population:

- a- decrease
- b- remain the same
- c- Increase
- d- A and C.

9- Which three layers form a soil profile ?

- a- Air, water and parent material
- b- Minerals, organic matter and living organisms
- c- Clay soil, sand soil and loam soil
- d- Topsoil, subsoil and parent material.

10- Bees swarm because of the following reasons except:

- a- good smell in their surrounding
- b- overcrowding
- c- outbreak of the diseases, pests and parasites
- d- lack of adequate ventilation.

**PART TWO : STRUCTURED QUESTIONS ( 90 marks ).**

Answer all of the following questions .

**QUESTION ONE: ( 11 marks)**

Livestock health refers to that in which in animal's body is functioning normally.

a- Identify **three** importance of keeping livestock healthy. ( 3 marks )

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b- Group the following parasites into two columns. **Column A** for **endoparasites** and **column B** for **Ectoparasites**. ( 6 marks )

**Parasites are:**  
**Liver fluke, mites, roundworm, lice, ticks and tapeworm.**

<b>Column A</b>	<b>Column B</b>
<b>Endoparasites:</b>	<b>Ectoparasites:</b>

c- State and explain **any two** methods of controlling livestock diseases. ( 2 marks )

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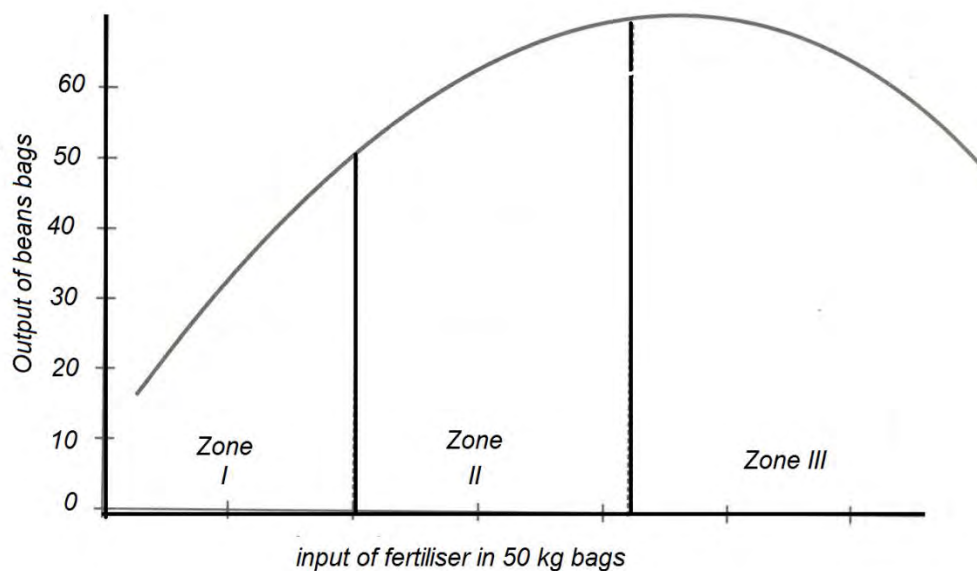
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**QUESTION TWO : ( 8 marks )**

Below is a graph representing the law of decreasing return.



a- Explain what would happen in each of the three zones marked in I, II and III in relation to fertilizer input to bean output ( 3 marks ).

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b – Which zone the output reaches maximum? ( 1 mark )

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C-Outline any three factors considered when sitting a beehives. ( 3 marks )

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d-What is the role of the Queen in a bee colony? ( 1 mark ).

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**QUESTION THREE: ( 11 marks )**

a- Suggest **two** reasons why fishing is important to Puntland . ( 4 marks ).

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b-Using lines, match the below plant nutrients with their symptoms of deficiency to plants. ( 5 marks ).

S/No	Plant nutrients.	Symptoms of deficiency.
1	Potassium	a- Plants have very thin stems.
2	Magnesium	b- The lower leaves dry up.
3	Sulphur	c- Leaf curl.
4	Calcium	d- Plant tips dry off.
5	Nitrogen.	e- Inhibits root, flower and seed formation.

c-Broadcasting is one of the methods of fertilizer application. Explain how farmers use this fertilizer into their farms? ( 2 marks ).

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**QUESTION FOUR:** ( 9 marks ).

Crop rotation and mulching are examples of field practices .

a- Define mulching ( 2 marks ).

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b- State any **three** importance of mulching with organic materials. ( 3 marks ).

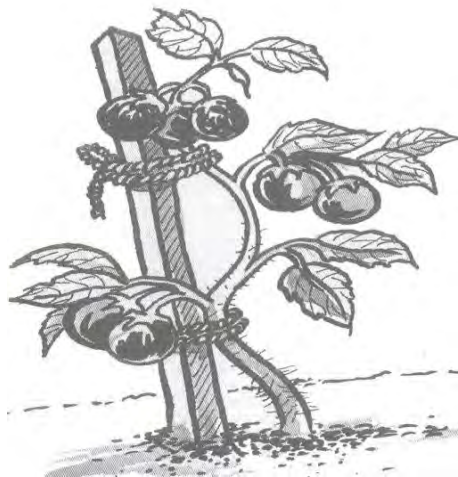
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c-The diagram below illustrates a field practice.



i- Identify this field practice ( 1 marks ).

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ii- Give any **three** advantages of the practice shown above. ( 3 marks )

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**QUESTION FIVE: ( 10 marks ).**

Using the words in the box, fill the empty spaces with the appropriate words. (10 marks)

**Intercropping, weeds, pest, decomposers, mono-cropping,  
Pruning, vector, pathogens, soil erosion land clearing.**

1	The microorganisms that break down dead plants and animals	
2	The microorganisms which transmit diseases.	
3	The removal of vegetative cover from the surface before land is tilled.	
4	The removal and carrying away of the top soil by moving water or wind.	
5	Any plant growing where it is not required.	
6	The practice of growing one crop in a farm or one piece of land.	
7	The practice of growing of two or more crops in the field at the same time.	
8	Removing of extra or unwanted vegetative parts of a growing plants.	
9	An animal or plant which is harmful to human beings or their crops or livestock.	
10	An organism that carries and transfers pathogenic organisms	

**QUESTION SIX: ( 10 marks ).**

Vegetable production is most widely practiced agricultural activities in many countries in a world.

a. Define the term vegetable. ( 2 marks ).

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b. Explain any **three** importance vegetable crops to both humans and farm itself .

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( 3 marks )

c. What are the **two** problems farmers encounter in marketing vegetables ?

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( 2 marks ).

d. Identify any **three** plant parts used vegetative propagations. ( 3 marks ).

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**QUESTION SEVEN : ( 10 marks )**

Agriculture can be defined as an art and science of crop and livestock production.

a- Give **three** reasons why agriculture is looked at as an artistic practice. ( 3 marks ).

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b- Differentiate between extensive farming and intensive farming. ( 4 marks ).

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c-State **three** roles of agriculture to the economy of Puntland ( 3 marks ).

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**QUESTION EIGHT : ( 11 marks )**

a- The diagram below illustrates the distribution of roots from the earth's surface downwards. Study the diagram and answer the questions that follow.



i-identify the title of the illustration \_\_\_\_\_ (1 marks ).

ii- Name the labeled depths observed from the illustration. ( 4 marks ).

1- Zone i \_\_\_\_\_

2- Zone ii \_\_\_\_\_

3- Zone iii \_\_\_\_\_

4- Zone iv \_\_\_\_\_

b- Why should a farmer keep farm records? (2 marks).

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c- Mention **two** reasons for choosing animal power instead of tractor power in the farm.

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( 4 marks ).

**QUESTION NINE: (10 marks).**

Vegetables are categorized on the bases of the part used.

a- Giving **one** example for each of them, name **any four parts** of vegetables used as a food. ( 4 marks ).

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b- Apart from capital , name **two** other factors of agricultural economic production.

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( 2 marks )

c- Give one reason why manure should not be applied when growing carrots.

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( 2 marks).

d- Why should the harvesting of carrots done once they have reached maturity ?  
give one reason.

( 2 marks ).

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END

