

MINISTRY OF EDUCATION AND HIGHER EDUCATION

FORM FOUR EXAMS, 2019

AGRICULTURE



P/LAND NATIONAL EXAMINATION BOARD

MINISTRY OF EDUCATION AND HIGHER EDUCATION
PUNTLAND NATIONAL EXAMINATIONS BOARD

Code Number

FORM FOUR EXAMINATION 2019
Time 2 hours AND 10 minutes for reading

AGRICULTURE

Instructions to candidates

- Answer all the questions
- This paper consists of 15 pages, count it and if any is missing inform your invigilator
- Do not write your **name and roll number** on the exam paper
- Make sure that **student's profile** is attached to the exam paper, if not, inform you invigilator.
- No extra paper is allowed. Rough work can be done on page 1 and 15. Those will not be marked.
- If you make a mistake, **cross out the incorrect** answer and **write your correct answer**.

This exam paper consists of following parts

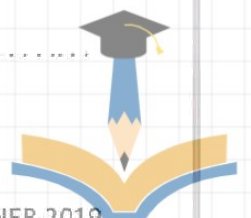
Parts	Marks
Part one: Multiple choice	10 marks
Part two: Structured Questions	90 marks
Total: 100 Marks	

For the markers only

PARTS	MARKS
Part one:	
Part two:	
TOTAL	%

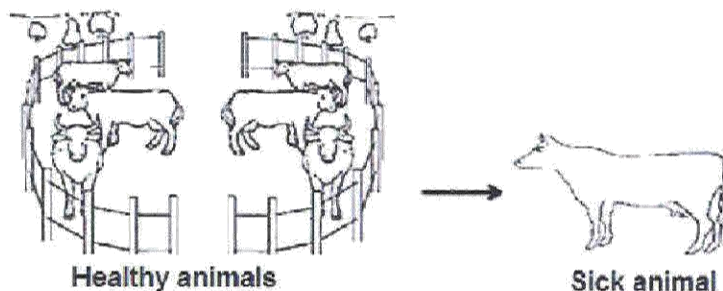


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PART ONE: MULTIPLE CHOOSE QUESTIONS**10 MARKS****Circle the letter of the correct answer**

1. The practice of minimizing the number of soil disturbance during crop production is called:
A. Maximum tillage
B. Secondary tillage
C. Primary tillage
D. Minimum tillage
2. The following diagram shows farm animals

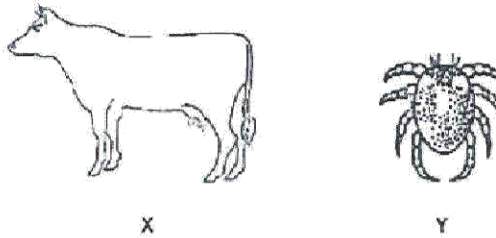


Which method of disease control illustrates the above diagram?

- A. Sanitation
B. Quarantining
C. Vaccination
D. Proper feeding
3. If a crop is planted at spacing of 30 X 10 cm in a plot of land measuring 12 cm, the plant population will be:
A. 3, 600 plants
B. 3,000 plants
C. 2, 890 plants
D. 3, 500 plants
4. Harmful micro-organisms that can cause diseases all living things are known as:
A. Predator
B. Pathogen
C. Decomposer
D. Pollinator
5. Chicken reared for meat production is known as:
A. Layers.
B. Broilers.
C. Capon.
D. Chick.



6. The diagram below shows two organisms



What are X and Y?

	X	Y
A	Saprophyte	Host
B	Parasite	host
C	Host	Parasite
D	Parasite	Saprophyte

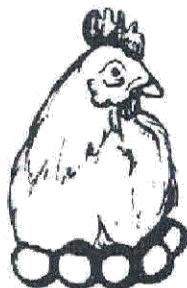
7. Which one of the following crops mostly cultivated by Puntland farmers?

- A. Mango
- B. Orange
- C. tomato
- D. Banana

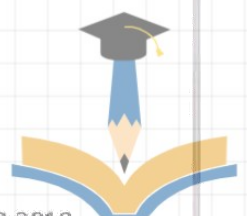
8. Soil fertility can be lost through:

- A. Weathering
- B. Absence of nitrogen
- C. Leaching
- D. Misuse of fertility

9. The picture below illustrates a hen sitting on her eggs. Circle the letter showing the correct activity:



- A. Giving milk to the eggs
 - B. Giving heat to the eggs
 - C. Cracking the eggs
 - D. All chooses are correct
10. An estimate of expected income and expenditure is termed to as:
- A. Assets
 - B. Expenditure
 - C. Inputs
 - D. Budget



PART TWO: STRUCTURED QUESTIONS**90 MARKS****Question one****10 marks**

A. Differentiate between irrigation and drainage in agriculture:

2 marks

i. irrigation

ii. Drainage

B. Describe any two agricultural practices which will lead to water pollution

4 marks

i.

ii.

C. What are the two reasons for treating water for human consumption

4 marks

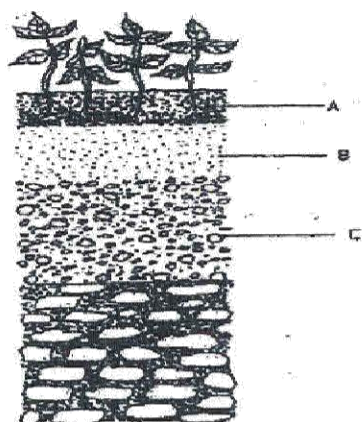
i.

ii.



Question two**10 marks**

The diagram below illustrates a feature observed after digging the soil several meters. Study the diagram carefully and answer the questions that follow



A. Identify the feature that the diagram above represents in the study of the soil **1 mark**

B. Name the parts of the diagram labeled **A, B** and **C** **3 marks**

A- _____
B- _____
C- _____

C. Both high and low temperatures affect crop production in different ways. Justify any two effects of high temperature on crop production in our country **Punt land. 2 marks**

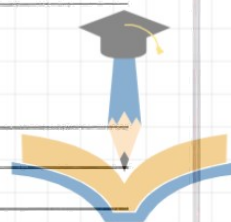
i. _____

ii. _____

D. Discuss the difference between small scale farming and large scale farming: **4 marks**

i. small scale farming:

ii. large scale farming



Question three

10 marks

A. Classify the types of camel and state their origins

4 marks

- i. _____

- ii. _____

B. Discuss any two factors that make a camel more resistant to some environmental factors such as droughts and high temperatures. **4 marks**

- i. _____

- ii. _____

C. Define the term livestock and give any two examples of livestock **2 marks**

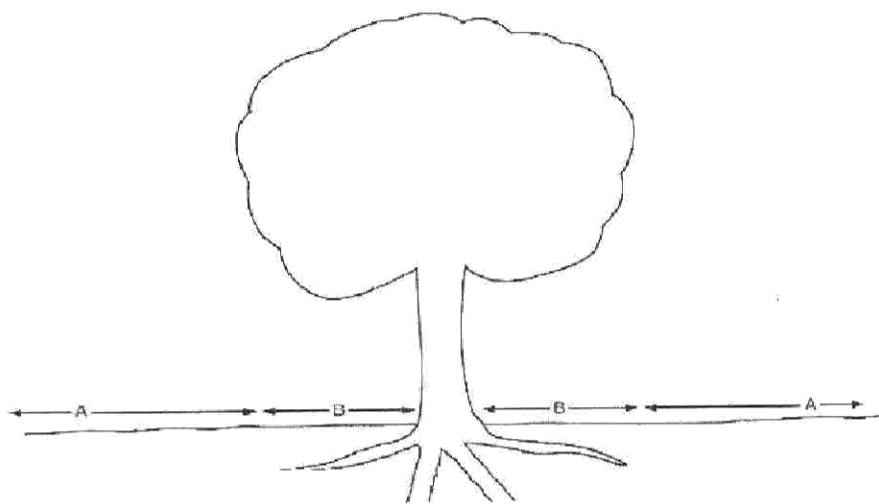
i. Livestock

ii. Examples



Question four**10 marks**

The below figure shows a tree and the surrounding ground where seeds may land when they are dispersed from the tree.



- A. Suggest why seeds landing in area **A** are more likely to grow into young trees than those landing in area **B**? **4 marks**

- B. Why the burning of bushes as method of land clearing should be discouraged **4 marks**

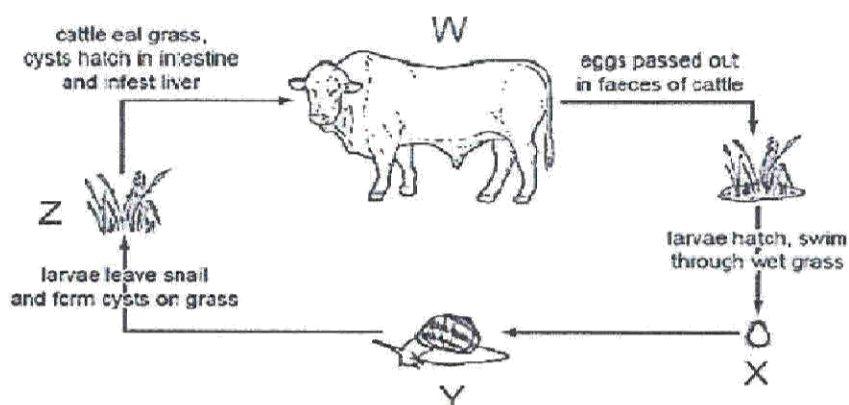
- C. Explain how organic farming is important in relation to the environment **2 marks**



Question five

10 marks

The diagram below shows the life cycle of a parasite that can infect cattle



A. Which stage **W**, **X**, **Y** and **Z** represents the intermediate host of the parasite? **1 mark**

1. **Z**
2. **W**
3. **X**
4. **Y**

B. Justify your answer in question (a) above **2 marks**

C. Suggest three control measures tapeworm parasite: **3 marks**

- i.

- ii.

- iii.



D. Find out four reasons why it is advantageous for livestock to be healthy **4 marks**

- i. _____
- ii. _____
- iii. _____
- iv. _____

Question six**10 marks**

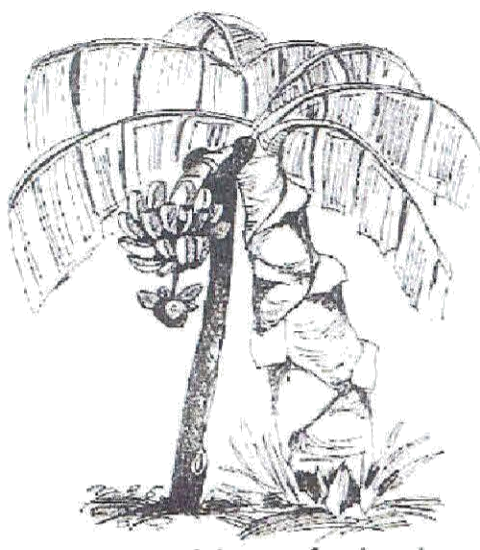
A. Match the definitions in column **A** with their terms in the box below: **6 marks**

Ectoparasites , artificial incubation, micronutrients,
Endoparasites, Natural incubation, macronutrients,

S/no	Column A	Column B
1	The elements needed by plants in small quantities	
2	Parasites that live inside or internal part of the host drives its food from the host	
3	Process that a broody Hen sits on 10 eggs for period of 21 days to hatch the eggs and produce new chicks	
4	Parasites that attach outside or external part of the host drives its food from the host	
5	Elements needed by plants in large quantities	
6	Process that man takes responsibility to provide all the conditions necessary for hatching eggs	



- B. The diagram below illustrates the staking in banana plant. Study and answer the questions that follow **4 marks**



- i. What is meant by staking? **1mark**

- ii. Investigate any three advantages of staking to the crop production. **3 marks**

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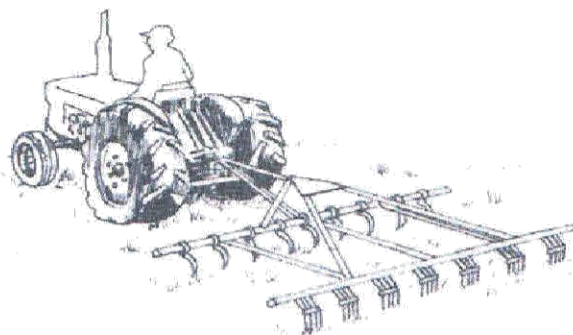
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Question seven**10 marks**

The picture below illustrates a type of farm activities. Study it and answer the questions that follow



A. Identify the above activity _____ **1 mark**

B. Differentiate between over sowing and under sowing

2 marks

i. over sowing

ii. under sowing

C. Explain why trees may be pruned

2 marks

D. Re- arrange the given agro forestry terms in the box into **agro forestry practices** and **agro forestry sites** in the below table. **5 marks**

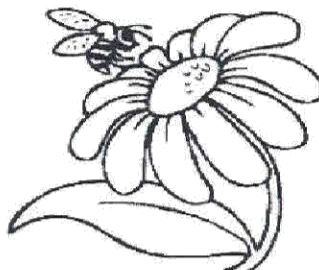
Boundaries, Multistory, River banks, Slopes, Woodlots

S/no	Agro forestry practices	Agro forestry sites
1		
2		
3		



Question eight**10 marks**

The diagram below illustrates a honey bee performing daily routine activities. Study and answer the questions that follow



A. Identify the activity being carried out _____ **1 mark**

B. Classify the honey bee colony members **3 marks**

i.

ii.

iii.

C. Describe one role of each member in the colony **3 marks**

i.

ii.

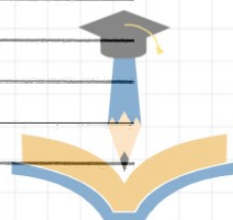
iii.

D. Justify three reasons why fishing is important to Puntland fishers **3 marks**

i.

ii.

iii.



Question nine

10 marks

- I. The diagram below illustrates a tomato crop. Study it and answer the questions that follow



- a- Why tomatoes crop do not grow on land which has been planted with tomatoes and potatoes for the last three years? **2 marks**

- b- Describe the harmful effects of crop pests on crop production **2 marks**



- II. The diagram below illustrates a type of farm activities. Study it and answer the questions that follow.



A. Identify the above activity _____ **1 mark**

B. Estimate any three importance of poultry keeping **3 marks**

- i- _____

- ii- _____

- iii- _____

C. Explain how crop rotation is importance to farm and farming **2 marks**

END.

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