

MINISTRY OF EDUCATION AND HIGHER EDUCATION

FORM FOUR EXAMS, 2018

AGRICULTURE



P/LAND NATIONAL EXAMINATION BOARD

MINISTRY OF EDUCATION AND HIGHER EDUCATION
PUNTLAND NATIONAL EXAMINATIONS BOARD

Code Number

Form four EXAMINATION 2018
Time 2 hours AND 10 minutes for reading

AGRICULTURE

Instructions to candidates

- Answer all the questions
- This paper consists of 11 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.
- If you make a mistake, **cross out the incorrect** answer and **write your correct answer**.

This exam paper consists of following parts

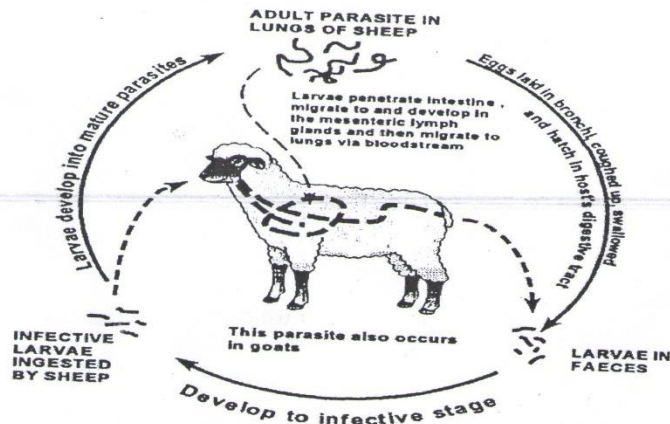
Parts	Marks
Part one: Multiple choice	10 marks
Part two: Structural Questions	90 marks
Total: 100 Marks	

For the markers only

PARTS	MARKS
Part one	
Part two	
TOTAL	%



- 6- The below diagram illustrates one of the internal parasites. Study it and answer the question that follows it. **Circle the letter of correct answer**



The disease is transmitted to the sheep through:

- a- Injection
 - b- Ingestion
 - c- Contact
 - d- Air borne
- 7- Fish farming is important all of the following **except**:
- a- Provision of high quality proteins
 - b- Provision of high energy foods
 - c- Provision of raw materials for feed and leather industries
 - d- Source of income to farmers
- 8- Applying too much nitrogenous fertilizer to tomato crop causes all of the following **except**:
- a- Prolonged maturity
 - b- Cracking of fruits
 - c- Plants have many shoots
 - d- Blossom end rot
- 9- All of the following are characteristics of Queen bee **except**:
- a- Makes honey and bee wax.
 - b- Much bigger in size compared to the rest.
 - c- Laying eggs.
 - d- Mated by drones.
- 10- Chicken reared for meat production is known as:
- a- Layers
 - b- Broilers
 - c- Capon
 - d- Chick



Part two: Structured Questions

90 marks

Question One

8 marks

- a- Differentiate between Olericulture and floriculture as used in crop production
2marks

Olericulture

Floriculture

- b- The diagrams below represent two ways in which a crop was pruned. Study them carefully and answer the questions that follow.



- i- Which diagram represents the correct way of pruning? **1 mark**

- ii- Give a reason for your answer in (i) above **2 marks**

- c- Define pruning **1 mark**

- d- Indicate any two plant parts that the farmers used for pruning to enhance growth of their crops **2 marks**



Question Two**8 marks**

a- A farmer decided to plant (grow) some crops for his first season as shown below:

Maize	garden peas
Potatoes	Kale

Design a crop rotation program of the second season of the farmer using the same crops
4 marks

b- Give the meaning of crop rotation

2 marks

c- Differentiate between organic manure and compost manure **2 marks**
Organic manure

Compost manure

Question Three**10 marks**

a- The table below shows PH values of different soils samples. Study it and answer the questions that follow:

Soil	PH values
S1	3
S2	4
S3	5
S4	6
S5	7
S6	8
S7	9
S8	10

i- Which soil sample has the highest acidity? **1mark**

ii- Which of the above soil samples has the least acidity? **1 mark**

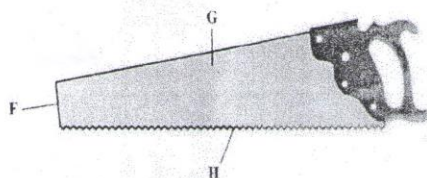


iii- Identify what PH stands for: **2 marks**

P _____ H _____

b- Explain any two influence of soil PH on crop production **4 marks**

c- The following is an illustration of a farm tool. Study it carefully and answer the questions that follow. **3 marks**



i- Identify name of the above stated farm tool **1 mark**

ii- Point out the main function of the above stated farm tool **1 mark**

Question Four

10 marks

a- Differentiate between land preparation and land clearing: **2 marks**

Land preparation

Land clearing

b- Outline any two importance of minimum tillage: **2 marks**

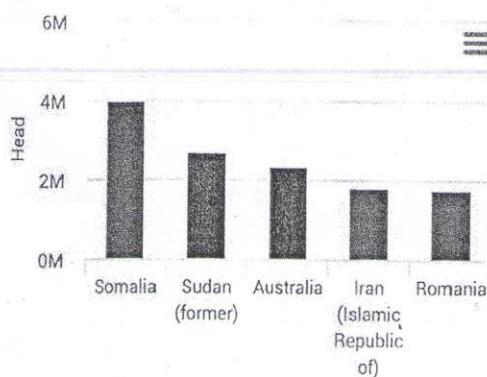
i- _____

ii- _____



- c- The export data, collected by the FAO-managed Food Security and Nutrition Analysis Unit (FSNAU), indicated the 5 top exporters of sheep and goat in the world in 2011. Study the table below and answer the questions that follow. **4 marks**

Exports of top 5 exporters 2011



■ Sheep and Goats

M = Million, k = Thousand

- i- Which country was the most exporter of sheep and goat in 2011?
- ii- How many sheep and goats do exported by this country in 2011?

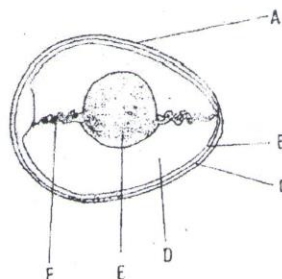
- d- State the gestation periods of following animals: **2 marks**

Animals	Gestation Period
1- Goats	
2- Camel	
3- Cattle	
4- Sheep	



Question Five**8 marks**

- a- The diagram below is an illustration of an egg. Study it carefully and answer the questions that follow.



- i- Identify the parts labeled **A** and **E**
2 marks

A- _____

E- _____

- ii- What is the function of a part labeled **A**? **1 mark**

- b- How do honey bees pollinate flowers? **2 marks**

- c- List the members of honey bees colony: **3 marks**

Question Six**10 marks**

- a- Arrange the following mixed plant nutrients in box below into macro plant nutrient and micro plant nutrients filling the below box: **4 marks**

Calcium, copper, molybdenum, Nitrogen, zinc, iron, Phosphorous, carbon

Macro plant nutrients	Micro plant nutrients

- b- Point out four common vegetables grown in Puntland state regions **2 marks**



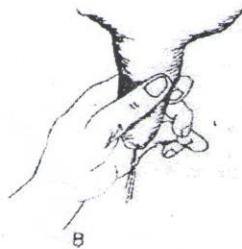
c- What will happen if the cabbage seedlings will stay too long in the nursery before Trans planting? **2 marks**

d- Why is it advisable not to use organic manure in carrot production? **2 marks**

Question Seven

10 marks

a- The diagrams labeled A and B below illustrate two different milking techniques. Study them and answer the questions that follow



i- Identify the above activity **1 mark**

ii- Which activity A and B is most appropriate technique activity? **1 mark**

b- What is meant agro forestry **2 marks**

c- Point out two importance of agro forestry: **4 marks**

i-

ii-

d- Indicate any two forms of agro forestry: **2 marks**

i-

ii-



Question Eight**10 marks**

Agriculture can be defined as the art and science of crops and livestock production.

a- State three in which agriculture can entail as an art subject **3 marks**

- i- _____
- ii- _____
- iii- _____

b- Estimate three reasons of how agriculture is an important sector in the economy of our country **3 marks**

- i- _____

- ii- _____

- iii- _____

c- Apart from hides and skins, name other two useful products obtained from our livestock animals **2 marks**

- i- _____
- ii- _____

d- Give any two factors that determine the farming systems: **2 marks**

- i- _____

- ii- _____

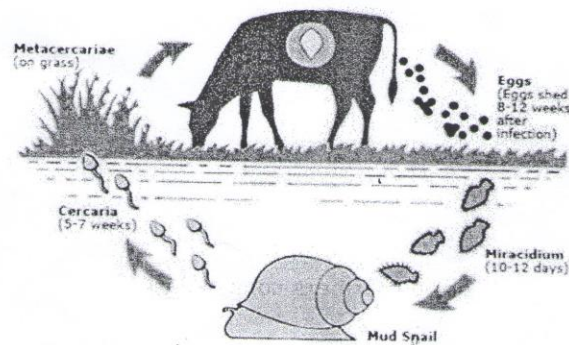


Question Nine**8 marks**

a- The figure below illustrates life cycle of liver flukes. Which one of the following is wrong about the symptoms of the disease? **1 mark**

- i- Reduced body weight
- ii- Swollen abdomen
- iii- Anemia due to blood loss
- iv- Healthy liver

b- Re correct the wrong answer

1 marks

c- List any three control measures of liver flukes: **3 marks**

- i- _____
- ii- _____
- iii- _____

d- Arrange the following mixed parasites in box below in to external and internal parasites filling in the empty box: **3 mark**

Liver fluke, mite, tapeworm, tick, lice, tsetse flies

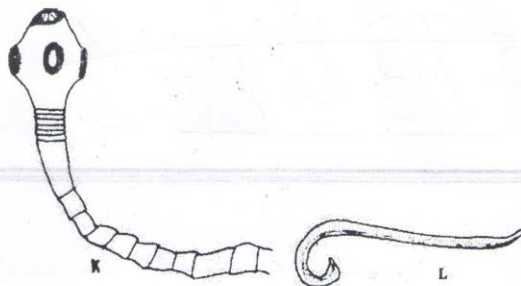
External parasites	Internal parasites



Question ten

10 marks

- a- Below diagrams are illustrating some of internal - parasites. Study them carefully and answer the questions that follow.



- a- Identify the parasites labeled in K and L

2marks

K: _____

L: _____

- a- What three factors do farmers consider when they are choosing tools for primary tillage?

3 marks

- i- _____
 ii- _____
 iii- _____

- b- If a farmer sowed (planted) 500 of mango seeds in the rainy season, and 300 of seeds were germinated. Calculate the germination percentage of the seeds. **3 marks**

End.

