NAME…………………………………………………………………………………..INDEX NO………………………………

443/2 CANDIDATES SIGN……………….

AGRICULTURE PAPER 2 DATE……………………………………

MARCH/APRIL 2015

2HOURS

MOKASA K.C.S.E. AGRICULTURE PAPER 2

INSTRUCTIONS TO CANDIDATES

[a]Write your name and index number in the spaces provided at the top of this page .

[b]Sign and write the date of the examination in the spaces provided above .

[c]This paper consists of three sections A ,B ,and C .

[d]Answer all the questions in sections A and B .Answer two questions in section C

[e]Answers should be written in the spaces provided on the question paper.

FOR EXAMINERS USE ONLY .

|  |  |  |  |
| --- | --- | --- | --- |
| SECTION | QUESTIONS | MAX.SCORE | CANDIDATES SCORE |
| A | 1---24 | 30 |  |
| B | 25—29 | 20 |  |
| C | 30 ,31 ,32 | 20 |  |
|  | 30 ,31 ,32 | 20 |  |
| TOTAL SCORE |  | 90 |  |

SECTION A [30 MARKS]

Answer all the questions in this section in the spaces provided .

1.Name a breed of goats that has long hair .[0.5mks.]

…………………………………………………………………………………

2.Give three factors that should be considered when sitting a bee-hive in the farm[1.5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

3.State four management practices that would ensure maximum harvest of fish in a fish pond [2marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

4.Give two reasons why walls of dairy sheds should be white –washed instead of painted with water or oil paint .[1mark]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

5.What is the intermediate host for liver fluke .[0.5mks.]

…………………………………………………………………………………………

6.What is the duration of estrus cycle in a cow ? [0.5mks.]

……………………………………………………………………………………….

7.If a dairy cow was noticed to be showing first signs of heat at 6.00am.What time should she be inseminated ? [1mark] …………………………………………………………………………………………………………………………….

8Give four factors that determine the amount of water required by an animal .[2marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

9.Name three holding tools and equipment .[1.5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

10.Give three functions of a combination squire . [1.5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

11.State three functions of the differential in a tractors power transmission.[1.5mks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

12.State three factors that contribute to a high working efficiency of a disc harrow.[1.5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

13.List three products obtained from dromedary camel.[1.5marks]

……………………………………………………………………………………………………………………………….

14.If the records showed that a rabbit doe was served on 27th September2014 what date did she give birth/kindle? [0.5marks]

……………………………………………………………………………………………………………………………

15.Give two signs that would show that a rabbit doe is about to parturate .[1mk.]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

16.Under what conditions would it be necessary to use a file to smoothen a piece of wood instead of using a smoothing plane ?[0.5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

17.What is the use of a plumb-bob ?[0.5marks]

……………………………………………………………………………………………………………………………….

18.State four characteristics of a corriedale sheep breed.[2marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

19.State any two disadvantages that may arise from inbreeding in livestock production .[1mark]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

20.Name four cattle diseases caused by bacteria .[2marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

21.Name any two methods recommended for identifying goats .[1mark]

………………………………………………………………………………………………………………………………

22.State three field conditions under which a disc plough should be used instead of a mould board plough .[1.5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

23.Give three symptoms of milk fever in dairy cattle .[1.5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

24.Give four reasons for steaming –up dairy animals.[2marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

SECTION B [20MARKS]

Answer all questions in this section in the spaces provided .

25.The drawing below shows the cross-section of a house under construction. Study it carefully and answer questions that follow .

[a]Assuming that the wooden beams are strong enough to hold the roof load .What is the most likely thing to happen when the roof load exerted presses at point Y and Z .[1mark]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

[b]On the diagram provided draw and label two constructional features you would add to this structure in order to make it more efficient.[2marks]

…………………………………………………………………………………………………………………………….

[c]State two importance of the fascia board in the farm building.[2marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

26.The following illustration show the behavior of chicks at different temperatures of the brooder.

[a]Explain the temperature conditions in each of the four diagrams A ,B ,C ,and D.[2marks]

A…………………………………………………B…………………………………………………………………

C………………………………………………..D………………………………………………………………….

[b]Give one method of assessing temperature in the brooder.[1mark]

…………………………………………………………………………………………………………………………

[c]Name two other behavioral observations on chicks when temperature is very high in the brooder.[2marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

27.The illustration below shows a pig far rowing pen .Study it and answer questions that follow.

[a]What is the use of the raised metal rails.[1mark]

………………………………………………………………………………………………………………………

[b]Give two uses for the parts labeled D[2marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

28.Below is an illustration representing a practice carried out in sheep. Study it and answer questions that follow.

[a]Identify the practice illustrated above.[1mark]

……………………………………………………………………………………………………………………………..

[b]State three precautions taken when carrying out the above practice.[3marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

29.Study the illustration below of a poultry digestive system and answer questions that follow.

[a]Give two functions of part E.[2marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

[b]State one function of part H.[1mark]

……………………………………………………………………………………………………………………………….

SECTION C [40MARKS]

Answer any two questions from this section in the spaces provided after each question.

30.[a]Describe ten factors that are considered during the selection of a breeding stock.[10marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

[b]Describe five effects of parasites on livestock.[5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

[c]Describe the mechanical control measures of ticks.[5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

31.[a]Outline five reasons why bees swarm away.[5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

[b]Discuss the preparations and practices that should be carried out on a pregnant sow 10 days before she far rows.[5marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

[c]Describe Gumboro disease under the following sub headings.

Causal organism [1mark]

……………………………………………………………………………………………………………………………..

Livestock attacked [1mark]

……………………………………………………………………………………………………………………………….

Symptoms of the disease [6marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Control measures [2marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

32.[a]Explain five advantages of animal draught power.[5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

[b]Discuss the importance of lubrication system in a tractor.[4marks]

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

[c]Explain six factors considered when selecting construction materials for farm structures .[6marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

[d]Give five qualities of a good calf pen.[5marks]

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................

……………................................................................................................................................................................................................................................................................................................................................................................................................................................................................