

NAME: CLA	ASS:
443/2 AGRICULTURE	
PAPER 2	
FORM FOUR	
TIME: 2 HOURS	
<ul> <li>INSTRUCTIONS:</li> <li>This paper consists of three sections A, B and C.</li> <li>Answer all questions in sections A and B and any two questions in section</li> <li>All answers must be written in the spaces provided.</li> </ul>	C.
<u>SECTION A: (30 MARKS)</u> Answer all the questions in the spaces provided.	
<ol> <li>Name three types of specialized feeding carried out in livestock management.</li> <li>Creep feeding</li> <li>Flushing</li> <li>Steaming up</li> </ol>	(1 <sup>1</sup> ⁄2 mks)
<ul> <li>2. Name the breed of sheep adapted to wet and marshy conditions of Kenya highl</li> <li>Romney marsh / kent</li> </ul>	ands. (1 mk)
<ul> <li>3. Give two ways of sterilizing a milk churn.</li> <li>Wash with hot and suitable detergent</li> <li>Use chemical sterilizers</li> <li>Drying in the sun</li> </ul>	(1 mk)
<ul> <li>4. Define the term epistasis as used in livestock production.</li> <li>Combination of genes which individually could be undesired</li> </ul>	(1mk)
<ul> <li>5. Name two methods used in ration computation.</li> <li>Trial and error</li> <li>Pearson's square method</li> </ul>	(1mk)
<ul> <li>6. Give five reasons for care and maintenance of farm tools and equipment</li> <li>To reduce cost of replacement</li> <li>To increase durability</li> <li>Increase efficiency</li> <li>Prevent injury to the user</li> <li>Avoid damages to the tool</li> </ul>	(2½ mks)
<ul> <li>7. Give two reasons for throwing grains to poultry on the litter in a deep litter poul</li> <li>To help turn the litter to keep id dry</li> </ul>	try house. (2mks)

To keep poultry busy

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<ul> <li>8. What are the terms used to</li> <li>Rabbits</li> <li>Fish</li> <li>Goat</li> <li>Donkey</li> </ul>	<ul> <li>describe the young ones of the following livestock.</li> <li>Kindling</li> <li>Fingerling</li> <li>Kid</li> <li>Foal</li> </ul>	(2mk)
<ul> <li>9. Name the causal organisms</li> <li>East coast fever</li> <li>Tryponosomiasis</li> <li>Rift Valley fever</li> <li>Anaplasmosis</li> </ul>	s of the following diseases in livestock. - Protozoan/ Theirelia parva - Protozoan/ Trypanosome - Virus - Protozoan/ Anaplasma marginale	(2mk)
<ul> <li>10. Give four reasons for cast</li> <li>Control breed</li> <li>Makes anima</li> <li>improves mea</li> <li>Control inbre</li> <li>Increases wei</li> </ul>	ding diseases Il docile at quality ceding	(2mk)
<ul> <li>11. List any three light breeds</li> <li>Minorca</li> <li>Ancona</li> </ul>	s of poultry - Sykes	(11/2)
<ul> <li>12. Give two qualities of a cruent of the second second</li></ul>	ible	(2mk)
<ul> <li>13. State four management pr</li> <li>Crutching/tag</li> <li>Raddling</li> <li>Hoof trimmin</li> <li>Ringing</li> </ul>		(2mk)
<ul> <li>14. Name any two plumbing</li> <li>Stock and die</li> <li>Pipe wrench</li> <li>Pipe cutter</li> </ul>		(1mk)
<ul> <li>15. List two symptoms of blo</li> <li>Distended left</li> <li>Immobility</li> <li>Digestive com</li> <li>Constipation</li> </ul>	t side of belly	(1mk)
(a) Predisposing factors:	by the following terms as used in livestock health? r outside the body of animal which lead to the animal cont	(2mk) cracting a

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b) Rigor mortise: - Stiffening of joints	
<ul> <li>17. Name four control measures of fleas in a flock of layers</li> <li>Dusting the poultry house/nest</li> <li>Ensure cleanliness</li> </ul>	(2mk
<ul> <li>Apply petroleum jelly on infected parts</li> </ul>	
<ul> <li>Dust birds with insecticide</li> </ul>	
<ul> <li>18. Differentiate between the following tools</li> <li>(i) Sickle - cutting back pyrethrum stack/harvesting rice, grass Secateurs - soft branches /tungs</li> <li>(mark whole)</li> </ul>	(2mk)
<ul> <li>(ii) A pair of tin snip and a pipe wrench</li> <li>Tinsnips - Cutting through sheet of metal,</li> <li>Pipe wrench: - Loosening or tightening metal pipes.</li> </ul>	
19. What is the vector of Nagana?	(½ mk)
• Tsetsefly	× /
SECTION B: (20MARKS)	
Answer all the questions in the spaces provided.	
20 a) Compute 200kg feed ration with 20% DCP from maize with 10% DCP and cotton seed ca	
containing 45% DCP.	(4mk)



(b) Name two feed ingredients that should be added to balance the feed ration above. (2mk)

Vitamins; minerals •

(c) Name two advantages of using a sub-soiler during land preparation (2mk)

- **Breaks hardpans** •
- Cultivate compacted soil •



21. The diagram H and J show two types of fences



- a) Identify each type of fence
  - H Chain link/woven wire fence
  - J Live fence/hedge
- b) Name the correct material and correct tool for fastening wooden posts when constructing the types of fence illustrated in diagram H. (2mk)
  - Material U nails/staples
  - Tool: Claw hammer/fencing hammer/pliers
- c) State three advantages that fence J may have over fence H
  - More aesthetic value
  - Act as wind break
  - Source of livestock feed
  - Cheaper to establish
  - Source of fruits
  - Source of firewood
  - Provides organic matter

22. Study the diagram below and answer the questions that follow



- (i) Name the type of identification illustrated above
  - Ear notching

•

(1mk)

(1mk)

- (ii) Give the identification number of the pig illustrated above
  - 110

(3mk)

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(iii) Using a diagram, illustrate how animal number 83 can be identified using the above method.

3 0 30

- (iv) What is the use of metal rails in a farrowing pen?
  - Prevents sow from crushing the piglets.

## SECTION C: (40 MKS)

## Answer any two questions from this section.

23 a) Describe any four general effects of parasites on livestock

- Sucking blood: Some parasites suck blood from their hosts causing Anaemia and death
- Parasites eat food intended for livestock this an lead to malnutrition and weakness in the host.
- Obstruction: Internal parasites block the alimentary canal which can cause death.
- Transmission of disease can cause death or lower production in livestock.
- Damage internal tissues and organs preventing proper functioning
- Irritation to animals : some parasites make animals uncomfortable

(4 x 2 = 8 mks) (Exaplanation 1 mk) (Stating 1 mk)

b) Name two causes of livestock diseases

- Pathogens eg bacteria, virus, protozoa and fungi
- Chemicals
- Physical eg injuries
- Nutritional causes

c) Describe East Coast Fever (ECF) under the following subheadings

- (i) Animals attacked Cattle
- (ii) Causal agent <u>Theirelia parva</u>
- (iii) Vector **Brown ear tick** (1mk)

(iv) Symptoms

- High fever
- Lachrymal discharge
- Swelling of lymph nodes
- Difficult breathing
- Self- isolation from others
- Haemorrhage in the vulva and mouth
- Coughing
- Sight impairment

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(8mk)

(2mk)

(1mk)

(1mk)

(1mk)

(2mk)

(5mk)

## (v) Control

- Eradication of ticks
- Intra-muscular injection of antibiotics and iron
- Control strange animals from the farm

24 a) Explain the uses of the various hand tools in the construction of the Kenya top bar hive.

- Claw hammer driving nails in and out of wood
- Tape measure/metre rule measuring length of pieces of material
- Clamp holding pieces of wood together when joining
- Pliers cutting wires
- Try square determining right angles on cutting points
- Marking/mortise gauge marking points to cut/plane
- Ball pen hammer Straightening/shaping sheet of metal
- Hand saw/Tenon saw cutting pieces of wood
- Tinsnips cutting roofing sheet/metal sheet

(8 x 1 ½ mks = 12 mks) (1/2 mk) – naming (1mk – explaining)

b) Describe the management practices that would ensure maximum yield of fish in a fish pond.

- Control stocking rate
- Control water pollution
- Supply adequate feed
- Provide appropriate feed
- Aerate the water by ensuring constant inflow and outflow
- Crop at correct stage
- Maintain water level
- Repair broken/cracked dykes
- Clear vegetation around the pond
- Control predators

25 a) Describe various cultural uses of livestock

- Status symbol One is regarded wealthy on owning large herds of cattle, sheep or goats.
- Medium of exchange livestock were used during barter trade
- Social ceremonies ceremonies like marriage and funerals had live or slaughtered animals
- Recreational purpose some activities like cock fighting, bull fighting may utilize their time constructively.

(8mk)

(2mk)

(12mk)

(8mk)

 $(8 \times 1 = 8 \text{ mks})$ 



(12mk)

## b) Describe various livestock rearing practices

- Feeding It enhances maintenance and productivity of the animal. Also important in preventing diseases in animals.
- Parasite and disease control Ensures animals remain healthy and productive.
- Breeding practices Ensures multiplication of healthy animals
- Identification Facilitates record keeping and other aspects of livestock management
- Debeaking Important in poultry to control vices e.g cannibalism and egg eating.
- Tooth clipping Removal of canine teeth in piglet 24 hours after birth
- Culling Removal of unproductive animals from a breeding herd.



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