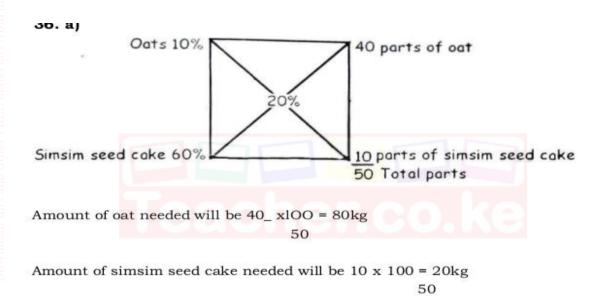


AGRICULTURE FORM 3: TERM 1 2025 OPENER EXAMINATION MARKING SCHEME

1. State five functions of water in an animals diet.(Smarks)
- It is a component of body cells and many body fluids such as blood.
- Transports nutrients from one part of the body to another
- It makes cells turgid, maintaining the shape of the body cells.
- It is used in the biochemical reactions such as digestion in the body.
- It helps to regulate body temperature through sweating and evaporation.
- It helps in the excretion of waste products from the body.
- It forms part of animal products for example, milk contains 83% water and an egg contains 55% water.
2. Give three sources of water in the animal's body.(3marks)
From drinking (free water)
- From food (bound water)
- From metabolism (metabolic water)
3. Outline five factors that influence the amount of water taken by a farm animal. (5marks)



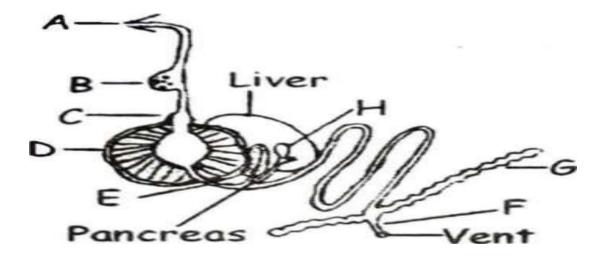
- Ambient temperature .
- Type of food eaten by an animal.
- Level of production or amount of \work.
- Weight of the animal or body size.
- Species of animal
- 4. a) Using the Pearson's square method, compute a 100kg ration with 20% DCP oats which contains 10% DCP and simsim seed cake containing 60% DCP. (5mks)



5.a) Give five differences between ruminant and a nonruminant animal. (5marks)



6. The diagram below shows the digestive system of a livestock.



- a) Identify type of livestock that posses the digestive system shown above. (lmark)
 - ✓ Poultry



b) Name the parts labeled B,C,D and G. (4 marks)
B- crop
C-proventriculus
D-Gizzard
G-caecum
c) State the main functions of the parts labeled B, C. Dand G. (4 marks)
B- fermentation of food and moisturing
C- True stomach
D-grinding food G-digesting cellulose
7. a)State five harmful effects of ticks. (5marks)
- They transmit diseases.
- cause anaemia
- Cause irritation



- Damage skin
- Cause wounds that acts as routes for secondary infections
- Some produce toxins that may cause adverse effects onthe host.
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c) List five control measures of ticks. (5marks)
- Hand-picking and killing
- Burning heavily infested pasture
- Ploughing heavily infested pasture
- Rotational grazing
- Kotational grazing
Dealth for the of materials at
- Double fencing of pasture land
- Use of appropriate chemicals



- Use of predator birds
- Zero grazing or restraining the movement of animals.
- Hand dressing using pygrease.
8. Name the four main stages of the life cycle of ticks.(2marks)
6. Ivalie the four main stages of the fire cycle of ticks. (2 marks)
- The egg
- The larva with six legs
- The nymph with eight legs
- The adult with eight legs
9. a) What is meant by one host tick. (1mark)
It is a tick that completes all its stages of development on the same host.
10.Describe the life cycle of a three host tick. (5marks)



- 1- Eggs hatch, larvae emerge
- 2. Larvae climb on to the first host and feed on blood
- 3. Engorged larvae fall to the ground and moult, nymphs emerge
- 4. Nymph climbs onto the second host and feed on blood,
- 5. Engorged nymphs fall to the ground and moult, adults emerge.
- 6. Adults climb onto third host feed on blood and mate
- 7. Engorged female falls to the ground and lays eggs.

