



STAREHE GIRLS' CENTRE MOCK EXAMINATION 2025

AGRICULTURE

Form 4

Paper 2

MARKING SCHEME

SECTION A 30 MKS

1. Reasons of using farm tools and equipment in the farm. 2x1=2mks

- (i) to increase efficiency on the farm
- (ii) -to enhance production
- (iii) to enhance safety on the farm

2. Reasons that a farmer opts to rear indigenous cattle breeds over the exotic breeds. 3x 1/2 =1 1/2 mks

- (i) -they can withstand high temperatures
- (ii) -they are capable of walking for long distances in search of pasture and water.
- (iii) -they are more resistant to most of tropical diseases and pest attack
- (iv) -they can survive on poor quality pastures

3. characteristics of bacterian type of camel. 3x 1/2 =3mks

- (i) -it has two humps
- (ii) -it is heavy and has short legs
- (iii) -it lives in cold region hence has thick and long coat

4. Factors that influence the pulse rate of an animal. 4x 1/2 =2mks

- (i) -the degree of excitement
- (ii) -the age of the animal
- (iii) -the sex of the animal
- (iv) -physiological status of the animal e.g. pregnancy

5. Signs of attack by endoparasite a farmer can observe. 3x 1/2 =1 1/2 mks

- (i) -loss of weight and emaciation
- (ii) -pot bellied
- (iii) -the animal will suffer indigestion
- (iv) -anaemic condition due to sucking of blood
- (v) -swollen and painful abdomen
- (vi) -dullness and the animal appearing depressed

6. Factors that determine the amount of food given to an animal. 4x 1/2 =2mks

- (i) body size or weight of the animal
- (ii) -environmental conditions within which the animal
- (iii) physiological condition of the animal
- (iv) -level of production
- (v) -purpose for which the animal is kept

7. Reasons why a farmer may use machakos dip instead of a plunge dip to control ticks. 3x 1/2 = 1 1/2 mks

- (i) scarcity of water
- (ii) -shortage of capital
- (iii) -small number of herds

8.factors considered when selecting construction materials. 4x 1/2 = 2mks

- (i) -availability of materials
- (ii) -cost of materials
- (iii) -suitability of materials
- (iv) -durability of materials
- (v) -strength of the material
- (vi) -workability of the material

9. Name three methods a farmer can use when selecting livestock for breeding. 3x 1/2 =1 1/2 mks

- (i) -mass selection
- (ii) -progeny testing
- (iii) -contemporary comparison

10. signs of heat in a doe. $3 \times \frac{1}{2} = 1 \frac{1}{2}$ mks

- (i) -restlessness
- (ii) -frequent urination
- (iii) -swollen vulva
- (iv) -doe throws itself on its sides
- (v) -tries to contact other rabbits in the next hutch

11. Reasons for carrying out identification to the herds. $4 \times \frac{1}{2} = 2$ mks

- (i) -for selection and breeding
- (ii) -disease control and treatment
- (iii) -feeding purpose
- (iv) -record keeping
- (v) -culling

12. Two diseases that affect bees commonly on the farm

- (i) -acarive disease
- (ii) -American foul brood disease

13. Methods a farmer can use when preserving fish after harvesting. $4 \times \frac{1}{2} = 2$ mks

- (i) -freezing
- (ii) -salting
- (iii) -sun drying
- (iv) -smoking

14. Factors that determine the choice of poultry rearing system. $4 \times \frac{1}{2} = 2$ mks

- (i) -availability of land
- (ii) -availability of appropriate equipment
- (iii) -availability of capital
- (iv) -security etc.

15. Significance of mobile calf pen in calf rearing. $1 \times 1 = 1$ mk

- (i) prevent accumulation/buildup of parasites
- (ii) -prevent accumulation of dung that may lead to dampness

16. Disadvantages of two stroke engine. $2 \times \frac{1}{2} = 1$ mk

- (i) they produce less power
- (ii) -they are inefficient in burning fuel to produce power
- (iii) -they are air cooled thus limiting the size of engine

17. Factors that could cause sudden stopping of a tractor engine.

- (i) -poor terminal conditions
- (ii) -faulty ignition system $2 \times \frac{1}{2} = 1$ mk

18. Disadvantages of animal drawn implements over tractor- drawn implements.

- (i) -are tedious than the tractor drawn implement
- (ii) -more than one person is required to guide the plough and the animals
- (iii) -animals are slower than the tractor
- (iv) -animals can be attacked by diseases in some areas
- (v) -animals requires extra piece of land for pastures and fodder crops.

SECTION B 20 MKS

- 19 a) A furrow wheel or rear thrust
B beam
C disc
D disc scrapper 4x1 = 4mks

b) Advantages of using the above implement over mould board plough. 2x1 = 2mks

- (i) good on rough field with stones, stumps or roots not easily broken by obstacles
- (ii) good on wet, heavy and sticky soils
- (iii) good on hard and dry soils by cutting various depth
- (iv) can be used on soil prone to soil erosion

- c) i) A - for balancing the whole implement
-also used to adjust the depth of plough
- ii) D - to remove wet soils from the disc
-Aid in the turning and inverting of the furrow slice

- 20 a) X – tsetse fly
Y – tape worm 2x1=2mks

b) Effects of parasite X

- (i) transmit Nagana to the livestock and sleeping sickness in human. (trypanosomiasis)
- (ii) cause anaemia due to sucking of blood
- (iii) damage the skins and the hides of animals 2x1=2mks

c) Disease transmitted by the parasite X. 1x1 =1mk

trypanosomiasis

d) measures taken to control the parasite labelled Y.

- (i) keep house clean and disinfected
- (ii) practice rotational grazing
- (iii) keep the feeding and watering equipment clean
- (iv) proper meat inspection
- (v) proper cooking of meat
- (vi) use of prophylactic drugs 3x1 =3mks

- 21 a) E- halter 1x1 =1mk

b) Reasons why branding is discouraged as a method of identification.

- (i) causes a lot of pain to the animal
- (ii) it reduces quality of the hides and skin
- (iii) causes wounds which on healing leaves a scar. 2x1 = 2mks

c) **caponisation** is the act of making a male birds lose their male characteristics.

SECTION C 40 MKS

22. a) Factors that predispose livestock to diseases. 5x2 =10mks

- (i) The age of the animal
- (ii) The breed of the animal
- (iii) The sex of the animal
- (iv) The colour of the animal
- (v) The species of the animal

b) Factors a farmer may consider when sitting a beehive in the farm. 5x2=10mks

- (i) location of dwelling places
- (ii) accessibility to water sources
- (iii) nearness to nectar producing flowers
- (iv) sunlight
- (v) quietness of a place

explained 5x2=10mks

23. a) Equipment used by the farmer in milking

- i) udder cloth/ towels – for washing and drying the udder
- ii) milking jelly - prevent teats from crucking
- iii) warm water – washing the udder to remove dirt
- iv) milking pails/buckets – for milking
- v) strip cup – defecting mastitis
- vi) milk cans/churns – for storage and transportation
- vii) milking stool – for a milkier to sit on as he/she milk

10mks

b) factors considered when selecting a breeding stock

- (i) physical fitness
- (ii) health
- (iii) level of performance
- (iv) age
- (v) body conformation
- (vi) quality of the products
- (vii) temperament/ behavior
- (viii) adaptability
- (ix) mothering ability
- (x) prolificacy

5X2 = 10 MARK

24. (a) four materials collected by bees (

- (i) water – for drinking and cooling the hive
- (ii) propolis – for sealing cracks and services in the hives
- (iii) pollen grains – from flowers. Fro feeding the brood and queen bee
- (iv) nector – from flowers.

-Used as bees main food.

-Used for making honey

4X2 = 8 MARK

(b) Equipments for harvesting honey

- (i) protective gear – to protect the person from the stings
- (ii) honey container – e.g. pail or bucket to hold honey or combs
- (iii) a hive tool – used to cut honey combs
 - used to open the hive top bars
- (iv) bee brush – used to brush the bees from the honey combs

4X2 = 8 MARKS

(c) Reasons that make fish farming popular today

- (i) supplies cheap and good protein to substitute meat
- (ii) suitable where land is limited
- (iii) makes fish available nearby
- (iv) It is a source of income to farmers

4X1 = 4 MARKS