
AGRICULTURE PAPPER 2

ANSWERS

KCSE 2011

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20.2 Agriculture Paper 2 (443/2)

SECTION A (30 marks)

1. Maintenance practices for a disc plough.
 - cleaning after use
 - painting the frame
 - greasing the moving parts.
 - repair/replace broken/worn out parts.
 - oiling the metal parts on long storage.
 - proper storage.(4 x ½ = 2 marks)
2. Selection of breeding stock.
 - Progeny testing.
 - Mass selection.
 - Contemporary comparison.(3 x ½ = 1 ½ marks)
3. Advantages of using animal power.
 - Animals are cheap to acquire.
 - Require less skilled labour.
 - Can be used on small holdings.
 - Are appropriate in very steep areas.(4 x ½ = 2 marks)
4. (a) Blue ticks - Anaplasmosis.
(b) Brown ear ticks - E.C.F
(c) Tsetse flies - Trypanosomiasis (nagana)
(3 x ½ = 1 ½ marks)
5. Control methods for roundworms.
 - Use of anthelmintics/drenching
 - Rotational grazing
 - Proper disposal of faeces/hygiene
 - Ploughing/burning of pasture.(4 x ½ = 2 marks)
6. (a) Disease: Any deviation or alteration in the state of animal body or its organs which interferes with proper performance of its functions.
(b) Vaccination: Is the administration of a weakened or killed disease causing agent into the animal to induce production antibodies for immunity against the disease.
(2 x 1 = 2 marks)
7. Maintenance practices for a battery.
 - Topping with distilled water to maintain correct level of electrolyte.
 - Cleaning the terminals and smearing them with grease to prevent corrosion.
 - Tightly fix the battery in a box to prevent spillage and damages.
 - Regular charging.
 - Empty contents and turn it upside down on long storage.
 - Should be fitted correctly on the tractor.(3 x □ = 1 □ marks)

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|-----|----------------|--------------|-----------------|
| 8. | Breed | Type | |
| (a) | Aberdeen Angus | Beef | |
| (b) | Guernsey | Dairy | |
| (c) | Sahiwal | Dual purpose | |
| (d) | Red poll | Dual purpose | (4 x = 2 marks) |
9. Proper nutrition
- Prevents nutrient deficiency diseases.
 - Ensures resistance against disease infection.
- (2 x = 1 mark)
10. Categories of livestock diseases
- Bacterial
 - Protozoan
 - Viral
 - Nutritional
- (4 x = 2 marks)
- 11.
- Upgrading.
 - Cross breeding.
- (2 x = 1 mark)
12. Bloodless castration methods.
- Use of rubber ring and elastrator.
 - Use of burdizzo.
- (2 x = 1 mark)
13. (a) recessive gene: An allele whose phenotypic expression is masked by a dominant allele in heterozygous condition.
- (b) Epistasis: Gene interaction in which the expression of some alleles is blocked (masked).
- (2 x 1 = 2 marks)
14. Signs of kindling in a doe.
- Nest building
 - Plucking of fur from the belly.
 - Lose of appetite.
 - Restlessness.
- (4 x = 2 marks)
15. Developmental stages of liver flukes in a fresh water snail.
- Sporocyst.
 - Cercaria
 - Redia.
- (2 x = 1 marks)
16. Four strokes of a tractor engine.
- induction/inlet
 - compression
 - power
 - exhaust/outlet
- (4 x = 2 marks)

17. Signs of mite attack in poultry.
- Irritation/scratching of the body.
 - Anaemia.
 - Presence of mites below the plumage in patches.
 - Falling off of feathers.
 - Dermatitis due to burrowing effects.
 - Formation of crusts.

(4 x = 2 marks)

18. Advantages of natural feeding in calf rearing.
- Calf takes milk at body temperature.
 - Milk is free from contamination
 - It prevents scouring in calves.
 - Milk is provided ad libitum.

(3 x = 1 marks)