
KENYA NATIONAL EXAMINATION COUNCIL

KCSE 2007

AGRICULTURE PAPER 3 MARKING SCHEME

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24.14.3 Agriculture Paper 3 (443/3)

PROJECT A: CHICKEN REARING

1. **Feeding**
 - Feeders: consider cleanliness of feeder.
 - Economy of feed use: consider the type, the level and wastage of feed.
 - Freshness of feed: consider presence of foreign materials and if feed is stale.
 - Position of feeder: check the height at which feeder is put in relation to the age of the chicken. (5 marks)
2. **Watering**
 - Waterers**
 - Cleanliness of waterer.
 - Position of waterers in relation to age of chickens
 - Water**
 - Cleanliness of water.
 - Amount of water in waterer. (4 marks)
3. **Health of chicken**
 - Signs of good health.
 - Weight gain of birds in relation to their recorded initial weight.
 - Control of ectoparasites. (7 marks)
4. **Management of droppings**
 - Birds kept on wire cages/ slatted floors.
 - Level of accumulation/absence of droppings on floor.
 - Level of accumulation/absence of droppings on the cage.

OR

- Birds kept on wooden floor cage.
 - Level of accumulation/ absence of droppings on litter.
 - Dryness of litter/ wetness. (2 marks)
5. **General cleanliness of cage:** Consider level of accumulation/absence of dirt, for example: dust or cobwebs (2 marks)
 6. **Records**
 - Availability of records.
 - Accuracy of information kept. (4 marks)
 7. **Initiative/Originality:** Consider unique practices carried out by the candidate which promote proper growth and health of chicken. (4 x 2 = 8 marks)

Note: Except for initiative/originality, all the other aspects of the project will be assessed three times. During each assessment the project should be scored out of a maximum of 24 marks, as shown in the marking scheme. The sum of three assessments added to the score of initiative/originality will be out of 80 marks.

Guidelines for Marking Candidates' Project Reports

The project report should be assessed out of 20 marks. The guidelines below should be followed to arrive at an objective score.

<i>Aspects of the project report</i>		<i>Maximum marks</i>
1.	Project title: Clearly written.	(1 mark)
2.	Introduction: <ul style="list-style-type: none"> ▪ Stating aim of project. ▪ Type of birds kept. 	(1 mark)
3.	Housing <ul style="list-style-type: none"> ▪ Description of the cage. ▪ Site of the cage. 	(2 marks)
4.	Feeding <ul style="list-style-type: none"> ▪ Feeder used and placement. ▪ Type of feed. ▪ Quantity of feed given daily. ▪ Supplementary feeds. 	(3 marks)
5.	Watering <ul style="list-style-type: none"> ▪ Waterer and placement. ▪ Supply of water. 	(2 marks)
6.	Health <ul style="list-style-type: none"> ▪ Disease control. ▪ Parasite/pest control. 	(3 marks)
7.	Observation: Achievements made, problems encountered and action taken.	(2 marks)
8.	Illustrations: Tables / drawings.	(2 marks)
9.	Results: Consider results in relation to the aim and management of project.	(2 marks)
10.	Conclusion: Consider consistency of the conclusion with the aims and operations.	(2 marks)
		(Total: 20 marks)

PROJECT B: PRODUCTION OF BEANS OR TOMATOES

- Seedbed/ land preparation:**
 - Timeliness of preparation. (3 marks)
 - Appropriateness of tilth/ fineness. (4 marks)
 - Extent of weed control. (2 marks)
 - Uniformity of seedbed/land preparation. (1 mark)
 - Straightness of edges. (1 mark)
 - Appropriateness of depth. (1 mark)
 - Correctness of plot dimensions. (2 marks)**(Total: 14 marks)**
- Crop establishment**
 - Timeliness of planting with respect to moisture availability. (2 marks)
 - Depth of planting. (1 mark)
 - Correctness of crop spacing. (2 marks)
 - Crop stand/coverage. (3 marks)
 - Crop appearance/vigour. (2 marks)
 - Correctness of number of plants per hole as recommended. (2 marks)
 - Straightness of rows. (1 mark)**(Total: 13 marks)**
- Weed control:**
 - Timeliness of weeding operation in relation to growth of crop. (4 marks)

- Thoroughness of weeding. (4 marks)
- Effect of weeding on the crop, for example: injury, burying of some foliage or exposure of some roots. (3 marks)
- Maintenance of edges of the plot. (1 mark)
- (Total: 12 marks)
- 4. **Pest and disease control:**
 - Effectiveness of pest control considering symptoms, presence or absence of pests. (5 marks)
 - Effectiveness of disease control considering symptoms, presence or absence of diseases. (5 marks)
 - (Total: 10 marks)
- 5. **Other cultural practices:** Consider any other appropriate cultural practices applied to the crop, for example: staking, pruning and gapping. (5 marks)
- (Total: 5 marks)
- 6. **Soil and water management:** Appropriate and effective soil and water management measures taken considering topography, climate and soil, for example: terracing, contour planting and ridging. (4 marks)
- (Total: 4 marks)
- 7. **Harvesting and handling:**
 - Avoidance of wastage during harvesting. (3 marks)
 - Timeliness of harvesting. (2 marks)
 - (Total: 5 marks)
- 8. **Yield obtained:** Quality and quantity harvested compared to other candidates in the class. (5 marks)
- (Total: 5 marks)
- 9. **Initiative/ originality:** Consider other unique practices carried out by a candidate aimed at improving the growth and performance of the crop. This aspect should be assessed any time during the course of the project. (4 x 3 = 12 marks)
- (Total: 12 marks)
- (Total maximum marks: 80 marks)

PROJECT B: PRODUCTION OF BEANS OR TOMATOES

Guidelines for Marking Candidates' Reports

The project report should be assessed out of 20 marks. The guidelines below should be followed to arrive at any objective score.

<i>Aspects of the Project Report</i>	<i>Maximum Marks</i>
1. Project title: clearly written.	(1 mark)
2. Introduction: stating the aim of the project.	(2 marks)
3. Seedbed preparation: clearing the land using pangas/ slashers.	(1 mark)
4. Preparing the land to appropriate tilth using jembes/ fork jembes.	(1 mark)
5. Planting <ul style="list-style-type: none"> ▪ Application of manures/fertilizers. ▪ Application of pesticides. ▪ Appropriate preparation of planting materials. ▪ Details of planting procedure appropriate to the crop. 	(2 marks)
6. Weed control <ul style="list-style-type: none"> ▪ Time of weed control. ▪ Types of weeds identified. ▪ Methods of weed control. 	(1 mark)
7. Pest control <ul style="list-style-type: none"> ▪ Types of pests identified. ▪ Types of damage caused. ▪ Control measures taken. 	(1 mark)

8. Disease control
- Symptoms of diseases identified.
 - Names of chemicals used.
 - Method of application.
- (1 mark)
9. Other crop management practices
- Mulching, thinning, gapping and watering.
 - Soil and water management.
- (2 marks)
10. Observation: achievements and problems experienced. (2 marks)
11. Harvesting
- Timeliness.
 - Method applied.
 - Tools and materials.
- (2 marks)
12. Result/ yield: Considering quality and quantity obtained. (2 marks)
13. Conclusion: consistency with the aim/management of the project. (2 marks)
- (Total 20 marks)