

## P1 AGRICULTURE Marking Scheme

MOCK

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### SECTION 'A' (30 MARKS)

1. A team is planning to teach the topic 'plants' to class 4 pupils using discussion method.
  - a) Reasons for using discussion.
    - *To measure learner understanding of the topic.*
    - *To enhance communication skills.*
    - *Allow learner develop self-confidence.*
  - b) Preparations before a group discussion
    - *Divide learners/grouping learners.*
    - *Choose group leaders.*
    - *Give topic*
    - *Issue guidance/material.*
2. A Science teacher is planning to take pupils to an agricultural institution for a lesson on crop field practices.
  - a) Preparations before the visit.
    - *Inform learners of the topic.*
    - *Prepare questionnaire.*
    - *Inform parents*
    - *Pre-visit*
    - *Arrange for meals and transport.*
    - *Write to institution.*
  - b) How can the teacher teach to ensure discipline during the visit?
    - *Give clear instructions*
    - *Take rollcall before entry.*
    - *Ensure pupils move together.*
    - *Draw programme.*
    - *Teacher to be with learners.*
    - *Take roll call before leaving school.*
3. A Science teacher has planned to teach a practical lesson on dehorning of calves using hot iron.
  - a) The teacher stated the following objective; "By the end of the lesson the learners will know how to dehorn calves."  
Give any **two** weaknesses of this objective.
    - *Objective is not measurable, i.e.*
    - *Does not describe the practice skill to be achieved.*
    - *Focuses on learners instead of learner.*
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b) Identify any **four** skills that the teacher could expect the pupil to acquire during this lesson. (4 marks)

- *Skills*
- *Restraining*
- *Manipulating*
- *Observation*
- *Measurement*

4. Identify **four** factors that the teacher should consider while preparing a scheme of work. (4 marks)

- *Availability of teaching resources*
- *Syllabus requirement*
- *Time availability.*
- *Level of learners.*
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5. State **four** advantages of using realia in a science lesson. (4 marks)

- *Motivate learners*
- *Make lesson interesting.*
- *High retention of knowledge.*
- *Make learning real.*
- *Learners have firsthand experience.*
- *Learners develop skills and attitudes.*

#### **SECTION B (40 marks)**

6. State **two** advantages of using wood in the construction of farm structures. (2 marks)

- *It is cheap.*
- *Attraction.*
- *Easily available.*
- *Easy to work with.*

7. Describe **four** ways of stimulating milk Lexadown process in cattle before milking the cow.

- *Taking the cow to the milking shed.*
- *Washing udder.*
- *Making noise with milking utensils*
- *Feeding the cow.*

8. State **four** factors to consider when selecting a site for an apiary.

- *Accessibility*
- *Availability of water*
- *Away from noise of flowers/disturbance.*
- *Away from predators.*
- *Shaded place.*
- *Away from homestead.*
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9. Mention **four** factors to consider when selecting methods of irrigation to use in irrigation.

- *Type of crop to be irrigated.*
- *Type of soil.*

- *Amount of water*
- *Topography*
- *Capital available.*

10. Give **four** reasons for keeping livestock healthy.

- *High income*
- *Longer productive lifespan.*
- *Regular breeding.*
- *Give high quality products.*
- *High production.*

11. Give **three** advantages of stall feeding.

(3 marks)

- *Accumulation of manure.*
- *Milk production is higher since animals use less energy in movement.*
- *Easier to control parasites and diseases.*
- *Stocking rates is higher.*

12. State **four** maintenance to be carried out in a cattle dip.

- *Plaster cracks*
- *Repair leaking roofs.*
- *Check strength of acaricides.*
- *Clean dipping tanks regularly.*
- *Maintain fencing.*
- *Prevent pollution of water .....*

13. State **three** practices that can be used to increase light intensity in growing crops.

(3 marks)

- *Planning*
- *Weeding*
- *Crop spacing*

14. Give **four** ways in which soil PH influence growth of crops.

(2 marks)

- *Determining availability of nutrients.*
- *Determine pre-service and activity of microorganisms.*
- *Determine type of crop to be grown.*
- *Determine occurrence of certain diseases.*

15. State **eight** factors that determine soil fertility.

- *Soil fertility*
- *Soil depth*
- *Drainage*
- *Water holding capacity*
- *Level of nutrients.*
- *Correct soil PH*
- *Free from soil born pests.*
- *Aeration.*

16. State any **two** methods of controlling tsetseflies.

- *Bush clearing*

- *Use impregnated nets*
  - *Spraying*
  - *Sterilization*
17. Give **three** reasons for dehorning in livestock.
- *Make animal docile*
  - *Provide space during feeding, drinking, transporting.*
  - *Reduce injuries to farmer on each other.*
18. Give **four** benefits of minimum tillage.
- *Reduce cost of land preparation.*
  - *Soil conservation.*
  - *Reduce loss of moisture.*
  - *Prevent root disturbance.*
  - *Reduce exposure of humus.*
19. State **six** reasons why agriculture is important in Kenya's economy.
- *Source of food*
  - *Foreign exchange*
  - *Raw material for industries.*
  - *Provide market for industrial goods.*
  - *Source of income.*
  - *Provide employment.*
20. State the function/use for the following farm tools and equipment. (4 marks)
- (a) Secateurs - *pruning small branches.*
  - (b) Drenching gun - *administering liquid drugs to animals.*
  - (c) Plump line - *checking the vertical accuracy of a wall.*
  - (d) Wire strainer - *tightening wires when fencing.*

**SECTION C (30 Marks)**

**Answer any THREE of the questions in the space provided**

21. Explain the management practices for a dairy cow during gestation period.
- *Deworming*
  - *Provide clean water*
  - *Proper feeding*
  - *Dipping/Spraying*
  - *Drying off*
  - *Foot trimming*
  - *Vaccination*
  - *Isolate and treat sick cow*
  - *Dry cow therapy*
  - *Regular milking*
  - *Proper hygiene.*
22. (a) Describe advantages of intercropping.
- *Provide good cover hence prevent soil erosion.*
  - *Control of pests and diseases.*
  - *Improve soil fertility since legume is included.*
  - *Farms get variety of food.*
  - *Control of weeds.*
  - *Leads to better utilization of nutrients.*
  - *Diversification hence reduces .....*
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(b) State reasons for storing crop produce after harvest.

- *To ensure availability between harvesting seasons.*
- *To speculate for better prices.*
- *To assemble before bulk transport.*
- *To assemble for processing.*

23. State the importance of various types of records kept on dairy farm.

24. Describe the importance of fences.

(10 marks)

- *Control spread of diseases*
- *Establish boundaries*
- *Control breeding.*

**End**