### **AGRICULTURE**



#### FORM 2

## **END TERM 2 2025 EXAMINATION**

### **MARKING SCHEME**

## **SECTION A (30 Marks)**

- 1. Three ways agriculture contributes to industrial development (3 marks 1 mark each)
- Provides raw materials to industries (e.g., cotton to textile industries)
- Creates market for industrial goods
- Provides employment which increases purchasing power
- Generates income to buy industrial products
- 2. Three factors that influence shifting cultivation (3 marks 1 mark each)
- Soil fertility
- Availability of land
- Climate (rainfall and temperature)
- Type of crops grown
- Population pressure
- 3. Two maintenance practices for each tool (4 marks 1 mark each)
  - a) Wheelbarrow
- Lubrication of wheel axle
- Repair or replace flat or damaged tires
- Cleaning after use
- Tightening loose nuts and bolts

### b) Wool shear

- Sharpening blades regularly
- Oiling moving parts
- Cleaning after use
- Safe storage to avoid rusting
- 4. Two reasons for land preparation before planting (2 marks)
- To loosen the soil for better root penetration



- To remove weeds and pests
- To improve aeration and water infiltration
- To mix manure/fertilizers with the soil
- 5. Two methods of preparing compost manure (2 marks)
- Pit composting
- Heap composting
- Pit or heap composting with layering
- 6. Two uses of farm records (2 marks)
- To monitor farm activities and production
- To plan and budget for farm resources
- To provide information for decision making
- For legal and tax purposes
- 7. **Meaning of N.P.K in fertilizers** (3 marks 1 mark each)
- $\bullet$  N = Nitrogen
- P = Phosphorus
- K = Potassium
- 8. Differences between (2 marks 1 mark each)
  - a) Straight fertilizer: Contains one major nutrient (e.g., CAN contains Nitrogen only)
  - b) Compound fertilizer: Contains two or more nutrients combined (e.g., NPK fertilizers)
- 9. Calculate amount of Nitrogen applied per ha (3 marks)

Given:

- Amount of CAN = 180 kg/ha
- %N in CAN = 21% Calculation:

Amount of N=21100×180=37.8 kg N/haAmount of N=10021×180=37.8 kg N/ha

- 10. a) Two advantages of using seeds as planting materials (2 marks)
- Seeds are easy to store and transport
- Seeds are disease free (if certified)
- Seeds produce uniform crops
- b) Two methods to break seed dormancy (2 marks)
  - Scarification (scratching or nicking the seed coat)



- Stratification (exposing seeds to cold treatment)
- Soaking seeds in water

# **SECTION B (Answer all questions)**

- 11. (Diagram question no text provided; mark accordingly)
- 12. Three types of information written on a soil sample before lab testing (3 marks)
- Date of collection
- Location or farm name
- Depth of soil sample
- Crop previously grown or intended crop
- 13. Use of materials in manure preparation (4 marks 1 mark each)
  - a) Wood ash Provides potassium and helps to reduce acidity
  - b) Rotten manure Provides nutrients and improves soil structure
  - c) Stick Used for mixing materials during composting
  - d) Top soil Contains microorganisms that aid decomposition
- 14. **Importance of soil testing** (2 marks)
- To determine soil fertility status and nutrient deficiencies
- To recommend appropriate fertilizer types and rates

## SECTION C (Answer all questions)

- 15. Five methods of applying fertilizer (5 marks 1 mark each)
- Broadcasting
- Spot application
- Band placement
- Side dressing
- Top dressing
- 16. Factors affecting rooting of cuttings in vegetable propagation (5 marks 1 mark each)
- Type/age of cutting
- Moisture content in the soil
- Temperature
- Light intensity

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• Use of rooting hormones

# 17. **Five reasons for maintaining farm tools** (5 marks – 1 mark each)

- To increase tool lifespan
- To ensure tools work efficiently
- To prevent injuries to users
- To reduce repair costs
- To maintain productivity on the farm

# 18. **Five farming methods** (5 marks – 1 mark each)

- Mixed farming
- ☐ Crop rotation
- Intercropping
- Mono-cropping
- Agroforestry

## 19. Five importance of keeping livestock in Kenya today (5 marks – 1 mark each)

- Source of meat and milk
- Source of income through sale of animals/products
- Provide manure for fertilizer
- Traught power for cultivation
- Cultural and social functions

## 20. Planting materials for given plants (5 marks – 1 mark each)

- a) Pineapples Suckers
- b) Sugarcane Stem cuttings
- c) Sisal Bulbils or slips
- d) Sweet potatoes Vine cuttings or tubers
- e) Banana Suckers or pups