

AGRICULTURE

FORM TWO

NAME..... CLASS ADM NO.....

1. Name FOUR main branches of agriculture

(2mks)

Agricultural engineering

Crop production

Livestock production

Soil science

2. State FOUR characteristics of nitrogenous fertilizers

(2mks)

Easily leached

Highly soluble in water

Have short residual effects

Highly volatile

Are hygroscopic

Highly corrosive

3. Differentiate between macro nutrient and micro nutrients

(1mk)

Macro nutrients are required by plants in large quantities while micronutrients are required by plants in relatively small quantities.

4. Diagram M, N,P and Q represents some farm tools



a) Identify the tools , M,N,P, and Q
(2mks)

M - Sickle

N-Pruning saw

P-steel float

Q-Masons trowel

b) Give the uses of the tools named above (2mks)

M- Harvesting grass

N- Pruning hard branches of coffee

P- To spread screed on floors

Q- To scoop mortar during construction

5. Given that maize is planted at a spacing of 90 by 30 cm , calculate plant population in a plot of land measuring 4 by 3 m. (3)

PLANT POPULATION=Area of land

Spacing

Area of the land= 400 cm x 300cm

Spacing 90 cm x 30cm

= 44 plants

6. State two soil sampling methods

(1mk)

Zigzag

Traverse

7. Give an example of a crop in which the following vegetative propagation materials are used (4mks)

a) Stem tuber – Irish potato

b) Bulbils- sisal

c) Stem cutting- cassava sugarcane

d) Splits - pyrethrum

8. Name two dairy breed of goat

(1mk)

Saanen

Toggenburg

9. State four advantages of using seeds as planting materials (4mks)

Possible to develop new varieties due cross pollination

Possible to apply manure and fertilizers together with seeds

They are not bulky

Fertilizers and manure application can be easily mechanized

Easy to handle

10. Describe two chemical processes that are involved in soil formation

(2mks)

Solution- the soluble minerals presents in the rocks are dissolved hence weakening the rock.

Hydration- this is process by which certain minerals absorb water and expands causing internal stress and fracturing the rock mass.

11. Differentiate between seed dressing and seed inoculation (2mks)

Seed dressing, coating of seed with fungicides or an insecticides to seedlings from soil borne diseases and pests while seed inoculation is coating of legume with right strain of rhizobium to encourage nodulation, hence nitrogen fixation.

12. A student was to apply a compound fertilizer 5:20:10 at the rate of 200 kg per hectare on her Agriculture project plot measuring 3 by 4 meters.

a) What do the figures 5 and 20 in the compound fertilizer above stand? (1mk)

5- Ratio of Nitrogen

20- Ratio of P_2O_5

b) Calculate the amount of fertiliser she would require for the plot (3mks)

1 ha =200kg

The plot thus requires; $12 \times 200 / 10000 = 0.24$ kg of the compound fertilizer