**NAME……………………………………..………………CLASS…………..ADM…………….**

**OPENER EXAMINATION – TERM 2 2024**

**AGRICULTURE**

**TIME: 2 HRS**

**FORM 2**

**Answer all questions in the space provided**

1. Describe five factors that determine the number of cultivation when preparing a seedbed (2 ½ mks)
2. State four importance of sub-soiling as a tertiary operation. (2mks)
3. The diagram below illustrate a tertiary operation carried out in a farm.
4. Identify the tertiary operation illustrated

(½mks )

1. State the importance of the tertiary identified (3mks)
2. Give other tertiary practices carried out in the field other than the above operation. (3mks)
3. How are hard pans caused by cultivation. (2mks)
4. The diagram below show a system of irrigation. (1mk)
5. Identify the method of irrigation. (1mk)
6. State four disadvantages of the above irrigation system. (2mks)
7. State three factors that determines the type of irrigation in the farm. (1 ½ mks)
8. Give the disadvantages of the above system of irrigation. (2mks)
9. Explain the process of water treatment. (5mks)
10. Differentiate between dam and weir. (2mks)
11. State four methods of drainage. (2mks)

**SECTION B**

1. The illustration below shows a four heap system of makig compost manure.Study it and answer the following question that follow.

A

B

A

C

Field fField

1. By show of an arrow indicate on the diagram above how the following material should be transferred from one heap to another. (4mks)
2. How long does the material take to be ready for application in the field.(3mks)
3. Give reason for turning the material in the heap regularly. (2mks)
4. Give two reason why it is necessary to sprinkle water on the heap. (2mks)
5. Outline and explain four types of farm records. (4mks)
6. Calculate the amount of K2O contained in 400kg of compound fertilizer 25:10:5.Show your working. (3mks)
7. State the information that should be contained in sampled soil. (3mks)
8. Distinguish between fertilizer grade and fertilizer ratio. (2mks)
9. Outline the deficiency symptoms of lack of Nitrogen in plant. (4mks)
10. Differentiate between trace elements and major elements. (2mks)
12. State two reasons for seed treatment of trees species before planting . (2mks)
13. Give three factors that determine spacing of crops. (3mks)
14. A farmer planted 100 maize seed and 90 maize seeds germinated. Calculate the germination percentage. (2mks)
15. Given that maize is planted at a spacing of 75cm by 25cm.Calculate the plant population in a plot measuring 4m by 3m. (2mks)
16. Distinguish between over sowing and under sowing. (2mks)