

- 10mrks

A hand-drawn pH scale from 0 to 14. Major tick marks are labeled at 0, 2, 4, 6, 8, 10, 12, and 14. Minor tick marks are present every 1 unit. Four points are marked with arrows and labeled: H_1 at approximately 1.2, H_2 at approximately 5.5, H_2 at approximately 6.8, and H_4 at approximately 12.5. The text "pH scale" is written below the axis.

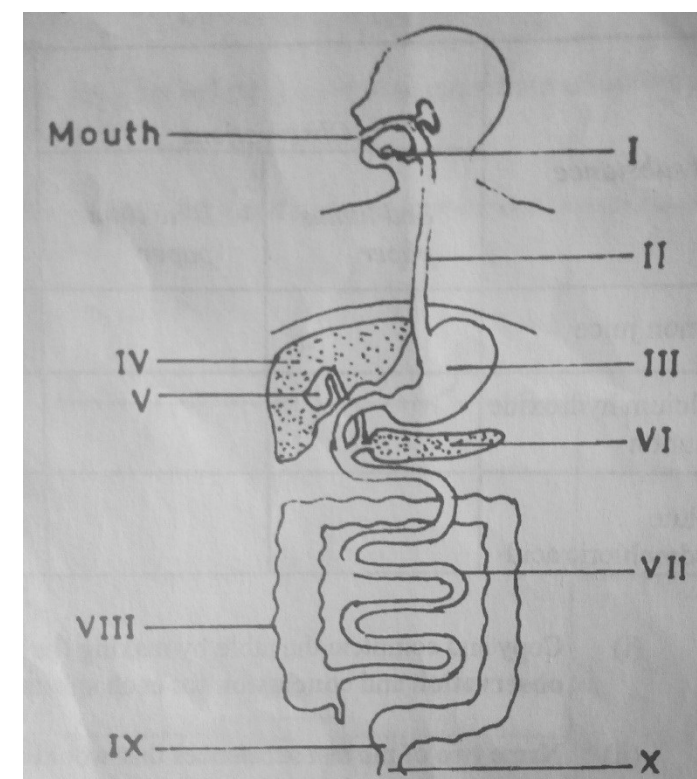
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Study it carefully and answer the questions that follows.

| Growing season | Plot 1 | Plot 2 | Plot 3 | Plot 4 |
|----------------|---------|---------|---------|---------|
| 1ST | Cassava | Bean | Tomato | Maize |
| 2ND | Maize | Cassava | Bean | Tomato |
| 3RD | Tomato | Maize | Cassava | Bean |
| 4TH | Bean | Tomato | Maize | Cassava |

- Question Number _____

[illegible][illegible]



- Name the parts labelled I, II, III, and IV.
- State one function of each of the parts labelled V and VI
- Name the part where the digestion of protein starts
- Identify the part where
 - Absorption of end-products of digestion takes place
 - Re-absorption of water takes place
 - Egestion takes place

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PART III

ANSWER ONLY FOUR(4) QUESTIONS FROM THIS PART

- Outline any two factors that lead to depletion of soil. 2mrks
 - State one method each of controlling the factors mentioned in 2ai above. 2mrks
- Give one example of the following ways of controlling mosquito
 - environmental
 - genetic 2mrks
 - Outline the stages in the life cycle of mosquito 2mrks
 - Name the salts produced when each of the following pairs of compound are reacted together
 - Sodium hydroxide and hydrochloric acid
 - Calcium hydroxide and sulphuric acid 2mrks
 - State any two uses of salt 2mrks
- Write down the formula for the following compounds
 - Aluminium chloride

- State two principles of rotation
 - Outline any tow advantages of crop rotation to the farmer. 10mrks
- d. Study the diagram below and answer the questions that follows.

| | | | | |
|----|---|--------|--|-------|
| | Magnesium hydroxide | | bi. What is fertile soil? | 3mrks |
| | Zinc oxide | 3mrks | ii. List four methods of applying fertility to crops | |
| 3. | ai. What is a star? | 1mrk | ci. State one function of each of the following types of teeth | |
| | ii. Outline any three uses of satellite | 2mrks | Incisor | |
| | bi. Distinguish between tooth decay and plaque | 2mrks | Molar | |
| | ii. Mention (4) of keeping our teeth clean and healthy. | 2mrks | Canine | 3mrks |
| | c. Give two examples each of the following | | ii. Mention two modes of heat transfer | 1mrk |
| | Base unit of measurement | | d.i. Explain each of the following | |
| | Derived unit of measurement | 4mrks | Galaxy | |
| | d. State the end product of each of the following food substances after digestion. | | Milky way | 2mrks |
| | Carbohydrate | | ii. Outline the stages in the life cycle of mosquito. | |
| | Protein | | | |
| | Fat | 3mrks | | |
| 4. | ai. Explain the term water conservation? | | | |
| | ii. Outline any three human activities that lead to the destruction of water bodies in Ghanaian community. | 3mrks | | |
| | bi. Explain each of the following terms as applied in life cycle of flowering plants. | | | |
| | -- Pollination | | | |
| | -- Fertilization | 2mrks | | |
| | ii. State four conditions necessary for germination of seed to take place. | 2mrks | | |
| | ci. Outline any two differences between temperature and heat. | 2mrks | | |
| | ii. State two advantages of mercury over alcohol as thermometer liquid. | 2mrks | | |
| | d. Define the following terms | | | |
| | Digestion | | | |
| | Ejection | | | |
| | Indigestion | | | |
| 5. | ai. Explain nuetralisation reaction. | 1mrk | | |
| | ii. Classify each of the following substances as acidic, or basic palm oil, limestone, vinegar, cocoa pod, orange, and breast milk. | 3mrks | | |
| | bi. What is satellite? | 1mrk | | |
| | ii. Name the four inner planets in the solar system | 2mrks | | |
| | ci. What is soil nutrient? | 11mrk | | |
| | ii. State one advantage of each of the following soil nutrients | | | |
| | Phosphorus | | | |
| | Nitrogen | | | |
| | Zinc | 3mrks | | |
| | di. List two components of the blood | 2mrks | | |
| | ii. Outline any two function of the blood | 2mrks' | | |
| 6. | a. State three differences between metals and non-metals | 3mrks | | |