

**DUDI GIRLS SCHOOL – OYUGIS.**

**2024 FORM ONE AGRICULTURE APRIL HOLIDAY ASSIGNMENT**

**INSTRUCTIONS**

**Answer all the questions in your holiday assignment exercise book**

1. Describe how each of the factors listed below influences soil formation.
  - a. Climate (5marks)
  - b. Parent rock s (5marks)
  - c. Biotic factors (5marks)
2. Describe the following layers of the soil profile and outline characteristics of each
  - a. Top soil (5marks)
  - b. Subsoil (5marks)
3. Outline the influence soil profile on crop production. (5marks)
4. Describe the importance of the following soil constituents/components
  - a. Soil water (5marks)
  - b. Organic matter (5marks)
  - c. Mineral matter (5marks)
5. Describe the experiment to determine the percentage of air in a soil sample (10marks)
6. With the aid of diagrams describe the experiment to determine the presence of living organisms in the soil (10marks)
7. Describe the following forms of water in the soil
  - a. Superfluous water (4marks)
  - b. Hygroscopic water (4marks)
  - c. Capillary water (4marks)
8. Differentiate between soil structure and soil profile (4marks)
9. State five types of soil structure (5marks)
10. Outline the influence/effects of soil structure on crop production (4marks)
11. Outline farming practices that destroy soil structure (5marks)
12. Give the effects/influence of soil PH on crop production (5marks)

**PARENT/GUARDIAN'S NAME .....**

**ID/No. .... SIGNATURE .....DATE .....**