

LOWER SECONDARY CERTIFICATE OF EDUCATION
END OF YEAR ASSESSMENT, 2024
S.1 CHEMISTRY
DURATION: 1 HOUR 30 MINUTES

INSTRUCTIONS:

- This paper consists of two sections; A and B
- Attempt all items in section A, and one from section B

SECTION A (*Attempt all items in this section*)

Item 1

Mr. Ai, a resident of your village intends to construct a permanent complete house with a good water tank for his family. He knows that a good tank depends on the materials used to make it. He has come to you for advice on the choice of materials to be used.

Use your chemistry knowledge to;

(a)(i) Identify two categories of materials (*giving one example in each case*) that Mr. Ai can use. (2 Scores)

(ii) Explain any one of the categories you have identified in a(i) above (1 Score)

(b) Give any three properties of any example of the materials you have identified in (a) above (3 Scores)

(c) Give one danger of the material you have identified, and how it can be solved (2 Scores)

Danger	How it can be solved

(d) Provide one similarity and difference between the categories you identified in (a) above (2 Scores)

Similarity	Difference

Item 2

Miche, a peasant farmer forgot her hoe and panga outside the house in the open. After four days, she realized the color of the garden tools had changed to brown. She is disturbed and has come to you for help.

As a chemistry student;

(a) Explain to Miche;

(i) Factors responsible for the change of color (2 Scores)

(ii) Two importance of one of the factors you have given in (a) above (2 Scores)

(b) Identify any two dangers associated with garden tools changing to brown (2 Scores)

(c) Explain how the dangers in (b) above can be solved/mitigated (2 Scores)

SECTION B (*Attempt one item in this section*)

Item 3

In Uganda, there are many mineral reserves and rocks. Due to rapid population growth, their exploitation is causing environmental degradation. The government through media houses wants to make public awareness in the matter.

Your school has been chosen to lead the environmental conservation campaign in your district, and you have been chosen to present on one of the radio talk shows basing on your chemistry knowledge on Rocks and minerals.

Tasks:

a) (i) From the scenario, identify the category of natural resource under danger

(ii) Give a reason for your answer in a(i) above

b) Identify the components of rocks and minerals that cause them to be exploited.

c) Explain two effects of human activities on rocks and minerals

d) Suggest two ways in which the effects you have given in (c) can be solved/mitigated (12 Scores)

Item 4

a) Name two sources of natural water.

b) Describe the process of purification of raw water that we normally receive in our communities

c) Explain how natural water is recycled (12 Scores)

*****END*****