

NAME:.....STREAM:.....

P 545/1

CHEMISTRY

PAPER 1

1 HOUR



WUNNA EDUCATIONAL SERVICES
LEARNERS' ASSESSMENT BOARD (WESLAB)

Uganda certificate of Lower secondary education

M.O.T 1 ASSESSMENT TWO

S.3 CHEMISTRY PAPER 1

1 HOUR

INSTRUCTIONS TO LEARNERS:

- ✓ This Paper consists of two **part I and II**. It has **four** items.
- ✓ Answer one item from **each** part.
- ✓ Attempt one item from each part and **2 items in all**.
- ✓ Any other additional Item(s) shall not be scored.

EXAMINER'S USE ONLY:

PART	I	II	TOTAL
SCORE			
COMMENT			

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PART I (Select 1 item from this part)

ITEM 1:

Air which is a mixture of different components contains 78% Nitrogen. Due to a wide need for ammonium nitrate fertilisers by farmers to improve their yields, there is an increased demand for Nitrogen. The government supply of Nitrogen gas is not enough and is planning to set up a Nitrogen production plant with minimal environmental impact. However, the science club members in your school would like to know how the process of production will be carried out.



TASK:

As chemistry student, make a write up you will use during the presentation.

(20 Scores)

ITEM 2:

Sulphuric acid on large scale is being used in a number of industries like fertilizer and battery making and hence it's highly needed in large quantities for its use. Its demand in the world market calls for government intervention on construction of a plant with minimal environmental impact.

The Government has consulted the national laboratory technologist to guide them on how the process of production will be carried out.



Task:

Assuming you're the technologist, make a write up you will use during the presentation.

(20 Scores)

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PART II

Answer one item from this part

ITEM 3:

Kamonkoli village is facing a challenge of high cost of plastics (polymers) especially polyethene products due to an increase in demand for them as packaging materials for various products. It has procured 3 acres of land in Bunyoro industrial area and it intends to venture into manufacturing of these plastic products by itself however residents are concerned about the impact of the industry on the environment and how they'll benefit from it. The investor has contacted you to guide them on the production process.



TASK:

As a Chemistry learner, prepare a detailed report showing how the plastics shall be processed, its relevance and side effects to the environment. **(10 Scores)**

ITEM 4: In the village of Rutete, in Tororo, a rocky and mineral filled area, people are found carrying out stone quarrying, mining, charcoal burning amongst other practices. They are now facing a challenge of poor air, water and soil quality.

The chairperson of Portbell village has organized an emergency meeting to talk about the different concerns from people arising from these natural resources.



TASK.

As a chemistry learner who is a member of the village, make a write up you would present elaborating on the different types of rocks, social impact and how the concerns raised by the villagers would be tackled. **(10 Scores)**

END

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