SAX EXAMINATIONS CHEM 2025

Item 1:

Solution

A laboratory attendant at Kiyala High School was tasked with restocking the laboratory. They found three unlabeled solutions, A, B, and C. To identify them, they used red cabbage extract as an indicator and recorded the following results:

Effect on red cabbage extract

Solution A	The purple color of the rea cabbage extract turned pink.
Solution B	The purple color of the red cabbage extract turned green.
Solution C	No color change.
Task;	
(a) As a student of	·
(i) Identify the nat	ture of the solutions and provide an example for each.
(ii) Suggest the p	roperties of solution A.
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	of the applications of solution B?

Item 2

Task:

Mr. Kato has noticed that many of the corrugated iron roofs in the village are rusting and deteriorating quickly. He's concerned about the safety and longevity of the roofs, especially during the rainy season.

The following roof samples were provided.

Sample 1: A piece of shiny, relatively new corrugated iron sheet.

Sample 2: A piece of heavily rusted corrugated iron sheet.

Sample 3: A piece of a different roofing material, which has stayed for over years but still shinning.



a) Suggest the category of the component of roof samples suggesting the best sample with reasons. b) Cite out the properties of the suggested best sample in a above. c) Guide Mr. Kato on the applications of Alloys in everyday life.

Item 3

Mama Zawadi has noticed a growing problem with discarded plastic water bottles in her village. These bottles litter the streets, clog drainage systems, and harm livestock. She brings this issue to the Village Council and asks for solutions. You have been invited to give information about plastics.

