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CHEMISTRY

Paper 1

2024

MAKINDYE SECONDARY SCHOOL

MID TERM 2 EXAMS (S1)

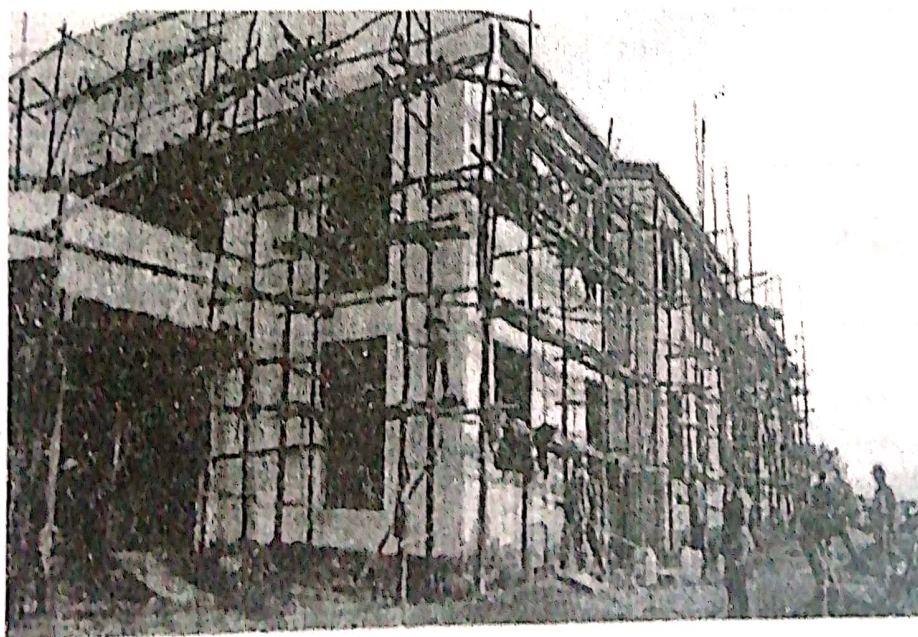
Uganda New Lower Secondary Certificate of Education

CHEMISTRY

45 Minutes

Item 1

Mr. Okulet a science teacher has just earned his salary including arrears for the previous three months. He plans to construct a good permanent house but without affecting the environment. There are various building materials of different quality and properties on market. However, he does not know the quality of materials to use. Mr. Okulet being a science teacher is aware that choosing quality materials depends on nature of the material and has come to you for advice.



Task:

Use your knowledge of chemistry to:

(a) Explain:

(i) Categories of materials. (Hint defines materials, give the category and examples in each category)

A material is substance or mixture of substances that constitute an object. They are categorized into Natural materials and Synthetic or artificial. Natural materials are God made i.e. wood, sand. Artificial materials are man made i.e. iron, Aluminium metal.

(ii) Suitability of materials (hint; Mention materials used and their properties).

<u>Iron</u>	<u>Aluminium</u>
- strong	- strong
- high melting point	- high melting point
- high tensile strength	
- Ductile	<u>Plastics</u>
<u>Wood</u>	- Recycled
- Biodegradable	- moulded
- Readily available	- cheap

(iii) Advise Mr Okulet on the choice of materials he can opt for. (hint Mention how materials are used basing on their properties and side effects of materials)

Iron

Aluminium

To make shutters of doors; - To make shutters of doors;

To make frames of doors ✓ - To make frames of windows ✓

Side effects

Depletes soil fertility when ~~gets~~ it accumulates; ✓ 03

END

X