

ULSCE SCIENCE BOOSTER PACKAGE 2024

CHEMISTRY PAPER 1

545/1

SET 5

2HOURS

Name:.....

Signature

Random number					personal number		

INSTRUCTIONS TO CANDIDATES.

- This paper consists of two sections **A** and **B**.
- Answer all the items in section A on the spaces provided.
- Section **B** has **two** parts **I** and **II**. Answer **one** item from each part.
- Answer **four** items in all.
- Any additional item(s) answered will not be scored.

FOR EXAMINER'S USE ONLY

SECTIONS	SCORE	EXAMINER
A		
B		
Total score		

SECTION A

Answer **all** items in from this section.

Item 1

Margret participated in serving guests at a S.4 promo party. She discovered that the life style of the elderly and youths was completely different basing on their choices of menu. The elderly guests preferred boiled foods, a fruit and water whereas the youths preferred fried foods and bottled soft drinks of different colours tastes and flavors.



Margret was bothered and wanted to know why the youths had preferences quite unique and similar.

Task

As a learner of chemistry help Margret;

(a) categorize the preferences made by the guests.

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(b) to explain how the materials that influenced the youths choice work.

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(c) to advise the youths on the long term consumption of the foods and drinks they preferred compared to that of the elders

Item 2

The organizers of events prefer to use materials that are easy to carry, affordable and effective with less environment impact. They understand that the choices of materials and suitability for use relies on their nature, properties and impact on the environment.



Nambafu one of the event organizers wants the materials categorized with their properties and uses stated so that he can help advise many groups planning to start up catering services.

Task

Using your chemistry knowledge help;

(a) Nambafu categorize the type of materials the starter of catering services should buy.

(b) Nambafu explain the suitability of the materials he has recommended to be bought.

(c) to advise on the choices of the materials recommended.

(d) state the effect of the disposal of the used materials on the environment.

SECTION B

PART 1

Answer **one** item from this part

Item 3

A chemical and fertilizer industry manufacturing sulphuric acid, phosphate and sulphate fertilizers existed in Osukuru Tororo district. A farmer cultivating near the abandoned mine wants to understand the processes involved in the manufacture of the chemical and the sulphate fertilizer that makes his crop yields and harvests better every season. His fellow farmers are ignorant but know the fertilizer as an ammonium compound made from ammonia.



Task

As a learner of chemistry, help and write a presentation that can be used to educate the farmer.

Item 4

The demand for cheap and clean fuel is ever rising and some residents have embraced charcoal burning as a serious economic activity though it also has a number of challenges. Charcoal is affordable and the raw material is renewable. Kawule inherited a forest from his father and wants to sustainably cut some trees for charcoal but does not know exactly how wood is turned to the fuel.

Task

Using the knowledge from chemistry help Kawule understand the process involved in production of the fuel.

PART II

Answer **one** item from this part

Item 5

Pius rears animals and also practices agroforestry. His land extends to the river and has planted trees close to the river banks. His neighbor carries out similar activities but was evicted out of his land close to the river because unlike Pius he planted trees on highland and cultivated in the river shores. Pius could not face each other with his neighbor who claims that Pius has planned for his downfall leading to his eviction from the fertile soils close to the river banks. Pius needs somebody to explain to his neighbor why his eviction by the environment officer was a right move and he should take it in good faith.

Task

Using your knowledge of chemistry make a presentation Pius would expect to convince his neighbor about the just action taken against him by the environment officer

Item 6

John was surviving on church land. He built a temporary grass thatched house in which he slept together with his goats and poultry. John received a visitor who spent a night in his house. The visitor advised his host to quickly save himself from dying early and build another house for the animals and cooking. John felt insulted and wondered whether people who live in two houses do not die at tender age.

Task

Present a write up that you would use to convince John that it is right to live in separate houses with animals as well as cooking.

END