

NAME OF A LEARNER.....

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P545/1

CHEMISTRY

(Theory)

PAPER 1

NOVEMBER.2023

2 HOURS



INSTRUCTIONS TO LEARNERS:

- Respond to all Items in this paper
- Use of relevant equations and illustration will earn you scores.

1. Kamuli Referral Hospital in Kamuli district has been using chloroform for anesthetic process to make patients unconscious and make operations on them. The supplier of chloroform has stopped and the only alternative they can use is ethanol but they lack knowledge of manufacturing alcohol from local materials in Kamuli.



a) As a Senior three learner, write a report guiding them on how they can process the alternative mentioned above such that they continue working on patients

(20 scores)

SHAPTA

2. In Magogo village, many people use pit latrines as area of disposal of human waste. These latrines produce a lot of bad smell whenever it clocks 1:30-2:00pm.



- a) As a senior three learner, write a report to the people of Magogo village explaining to them how the smell molecules able to move? (10 scores)
- b) Why the smell increases during a given time? (05 scores)
- c) What advise would you give to them on how they can avoid the bad smell? (05 scores)

SHAPTA

3. Mr.Kitera Isaac is a serious farmer in Bulindo village in Wakiso district. He grows beans mostly. His bean plants have started yellowing. Mr. Bwiire Joseph who is also a prominent farmer has advised him to use artificial fertilizers with a high percentage of nitrogen.



Mr.Kitera Isaac found the following list of fertilizers in agricultural shop in Bulindo town.

- 1) Ammonium sulphate
- 2) Ammonium chloride
- 3) Ammonium hydrogen phosphate
- 4) Calcium nitrate
- 5) Anhydrous ammonia

a) As a chemistry learner, help Mr.Kitera Isaac to choose the best fertilizer and why? (20 scores)

4. Mrs. Kasolo Faridah has landed in Uganda from Jordan. She has come with a lot of money and his idea is to use the money to set up a shop selling chemistry reagents and equipment in Kaliro village. She has bought both metallic storage cupboards made up of Iron and a wooden Cupboard.



Among the reagents she is going to buy are;

- 1) Concentrated sulphuric acid
- 2) Sodium metal.
- 3) Concentrated hydrochloric acid
- 4) Potassium metal
- 5) Sodium carbonate.
- 6) Sodium hydroxide pellets
- 7) Concentrated hydrochloric acid
- 8) Sodium Sulphate
- 9) Concentrated nitric acid.

a) As a senior three learner, write an article advising her on how the above reagents can be kept safe without getting contaminated. (20 scores)

END