

**SENIOR FOUR
CHEMISTRY PAPER ONE
2 HOURS
ANSWER ALL QUESTIONS**

1. Emma is a farm manager who has a challenge of a lot of plant and animal waste from the farm different sections. They create piles of rubbish around and cause smelling all over. But Emma heard that such wastes can be used for producing useful energy to help in other farm projects.
 - a) What product do you think Emma can produce from the waste to satisfy his need? (02 marks)

- b) With local materials, show how Emma can produce the products in a) above. (10 marks)

[illegible]

- c) Predict how the production will impact Emma, the farm and his community. (08 marks)

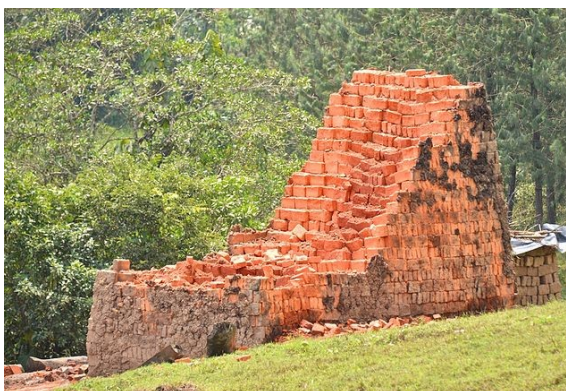
- Long ago people used plant oils and animal fats to produce solid soap for many purposes. Nowadays, soaps are of different colours, shapes, scents and more qualities.

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b) What challenges have you found in using the detergent above? How best they can be solved?
(08 marks)

SECTION B

- nkataivan123@gmail.com



Task: If you are one of the members in this class, design a write up to benefit the group in proceeding with the project. (20 marks)

4. Kamya is a new laboratory attendant at Kizibawo Secondary school. He found a section of metals in the laboratory but observed that these metals are not stored the same way. His main concern was on the storage of sodium metal, iron metal and the copper metal.



Task: Write down a message to help Kamya. (20 marks)