

NAME OF A LEARNER

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P545/1

CHEMISTRY

(Theory)

PAPER 1

NOVEMBER.2023

2 HOURS



SHAPTA JOINT ASSESSMENT BOARD

Uganda Certificate of Lower Secondary Education

CHEMISTRY

PAPER 1

SENIOR ONE

TIME: 2HRS

INSTRUCTION TO LEARNERS:

- This paper consists of five **items**
- Respond to **all** items
- Use of illustrations and drawings will earn you scores.

1. Science has made man to explore more about his surrounding and the things that make livelihood meaningful. In doing so, a lot of knowledge about substances has been built up; this partly makes up what we call Chemistry.

(a) Give a brief description of the meaning of the term Chemistry. (01scores)

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b) Chemistry is said to be a subject science. Give a reason why chemistry is categorized as a science subject. (04 scores)

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c) State four ways in which chemistry has contributed to our society (05 scores)

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2. Chemistry is one of the most prestigious science subjects studied at the secondary level of Education. When you study chemistry, you not only acquire knowledge about many chemical reactions and other substances, but you can also take up various careers after schooling.

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- (a) Suggest any three careers that you can take up through studying chemistry. (03 scores)

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- (b) Briefly describe how the knowledge of chemistry has been applied in the following field in the Ugandan economy;

- (i) Cosmetics industry. (03 scores)

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- (ii) Health sector. (02 scores)

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(iii) Agriculture Sector.

(02 scores)

3. Namukisa Esther who is in boarding section at a certain school in Kampala went back home for holidays and her mother told her to Prepare a glass of juice for her father using a mango fruit.

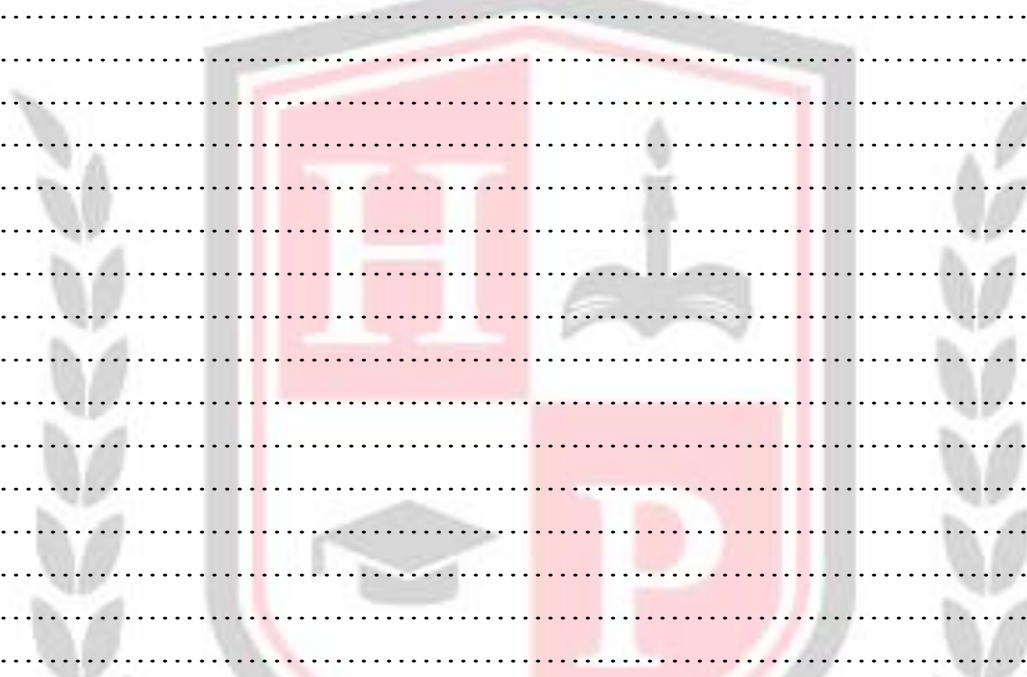
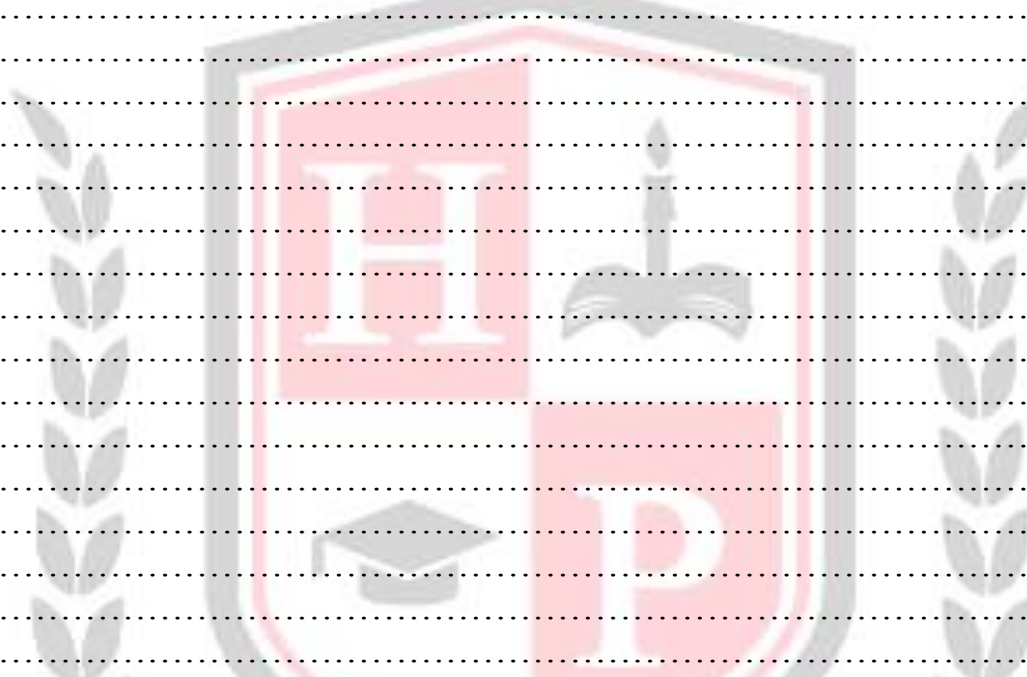


i) State the aim of the activity.

(02 scores)

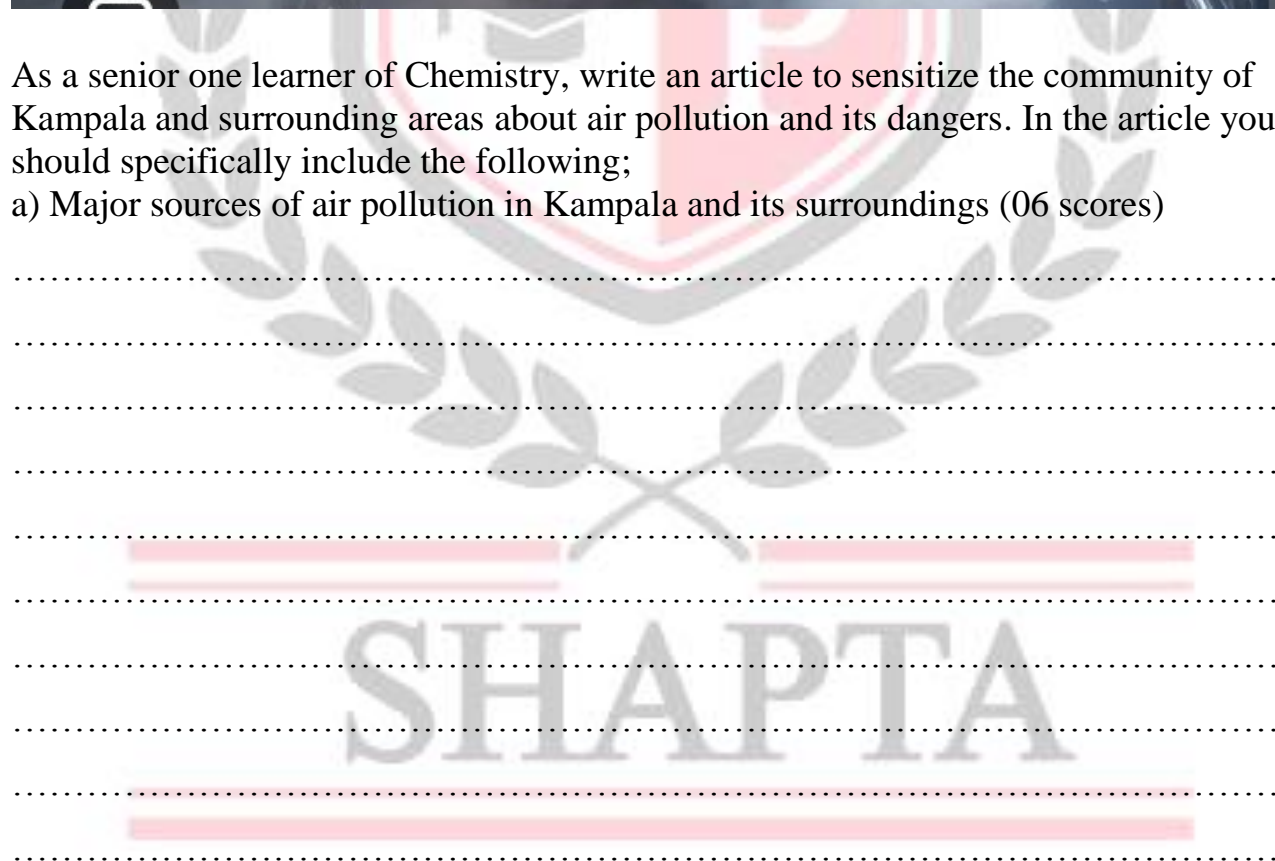
ii) List the materials required for the activity and its purpose?

(05 scores)



[Faint background watermark of a laurel wreath]

4. “Kampala residents are breathing in death” This was a headline in the New Vision newspaper of February, 2020. The newspaper said that a number of factors stand in the way of Uganda’s dream of becoming one of the best cities in the world. It may be ahead of other East African countries, but the Uganda capital behind because of air pollution by caused by Vehicles. The air in Kampala is polluted and when people breathe it in, they get cough and other lung diseases.



a) Major sources of air pollution in Kampala and its surroundings (06 scores)



(06 scores)

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5. We use Objects in everyday life which are made from materials that are either plastics, glasses, wooden, and metals.

(a) What are the useful properties of plastics?

(04 scores)

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(b) Plastic waste management is a problem in our communities today. There is Poor disposal of plastics in our communities caused by human beings themselves. This is a big threat to human health around the communities.



(a) What threats do plastics pose to man and his environment?

(10 scores)

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(b) What would be the possible solutions to the threats that plastics pose to the environment you have written in (a). (06 scores)

(06 scores)



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END