

CREAMSITE CENTRAL COLLEGE SCHOOL
LOWER SECONDARY CERTIFICATE OF EDUCATION
CHEMISTRY

Paper 1

1 hour

INSTRUCTIONS TO CANDIDATES.

- I. This paper consists one section only.
- II. The section consists of 10 structured questions. Each question carries equal scores.
- III. Answer all questions in the spaces provided.

1. The knowledge of chemistry has led to the development of many science fields including human medicine and agriculture.

Explain how the development of the above sectors have contributed to the economy of Uganda.

(04)

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2. Food poisoning, injuries, breaking of apparatus and burns are some of the common risks in the chemistry laboratory.

State how each of the above risks can be prevented. (04)

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3. Dry ice is one of the substances commonly used in a fire extinguisher to put off fire.

(a) Write the chemical name and the chemical formula of dry ice.(02)

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(b) State the properties which make dry ice suitable for its purpose in 3 above. (02)

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4. Melting and solidification are processes which involve the change of states of matter when subjected to different conditions.

What are the importance of these processes in our community? (04)

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5. The atomic number of magnesium, sodium, potassium and calcium are 12, 11, 19 and 20 respectively.

(a) Which elements have the same number of:

(i) Energy levels (01)

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(ii) Electrons on their outermost shells. (01)

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(b) Identify the most reactive element from the elements given in 5 above basing on their electronic structure. Give a reason for your answer. (02)

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6. The reaction between zinc and copper (ii) oxide is an example of single displacement reaction.

What are the applications of this type of reaction? (04)

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7. Air consists of mainly gases X and Y with the boiling points -195.8°C and -183°C respectively.
- (a) State how the two components above can be separated from air. (01)

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(b) Suggest the principle used when separating gas X from a mixture of gases X and Y.

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(c) Mention the uses of gas X. (02)

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8. Rocks are suitable for different purposes because they are made up of useful minerals.
- (a) Identify the minerals. (02)

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(b) State the uses of each mineral. (02).

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9. The severe diarrhoea among students of CCCS has resulted to many medical tests to determine the exact cause of this sickness and impure drinking water at school was found to be the cause. Explain how this problem can be addressed.

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10. Charcoal burning is one of the sources of income and the main source of fuel in Uganda but recently charcoal burning has attracted a national concern where the majority of people are against it.

Explain the effects of this economic activity and how it can be prevented.

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THE END