

DREAMLAND SECONDARY SCHOOL

S.3 CHEMISTRY

END OF TERM TWO EXAMINATIONS

ITEM ONE

a) In your village you have challenge of water, where the wells have muddy water and the boreholes provide salt water that hardly quench their thirst but rather increase it. Describe any scientific procedures that you as chemistry student can perform to make the village water clean and safe for human consumption.

b) Polythene bags, car tyres, buckets, iron sheets and petrol are some of the materials used in our day to day life.

(i) Describe any five ways how polythene bags are dangerous to our environment.

(ii) Explain any five ways of how to prevent the effects of polythene bags on the environment.

ITEM 2

Students were asked to identify examples of the changes that can take place in the atmosphere but use the same components of air. One student mentioned the burning of magnesium in air and the rusting of iron.

(a) What component(s) of air are used during burning of magnesium and rusting of iron?

(b) What is the similarity between the two chemical changes?

(c) What makes rusting of iron different from burning of magnesium in air in term conditions for the reaction?

(d) Write the formulae of the products of each of the changes

ITEM 3

A farmer in a rural area cleared his land to grow maize for sale. The rainfall was very favorable but the yields were very poor because the soil was not fertile and he made losses. He was advised to buy and apply one of the ammonium fertilizers. Make a presentation of about 400 words to guide him. (C=12, O=16, S=32, P=31, N=14, H=1)

END

