KIKONGE HIGH VIEW SEC ONDARY SCHOOL

END OF TERM ONE

S3 CHEMISTRY

TIME 2 HOURS 30 minutes

1. Explain why carbon dioxide which is essential to life can also be dangerous.

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he pie chart shows the percentage composition of main gases in dry air.

B



A

(a) State which gases are represented by segments A and B.

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(b) State which gas will combine with other elements when they are bunt in it?

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(c) State which of noble gases is present in the greatest amount of air

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(d) Explain why we can say that air is dilute “oxygen”. What would happen if air was pure oxygen?

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(e) Oxygen dissolves in water. Explain why this is important to us.

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(b) State two factors that could have contributed to the increased amounts of carbon dioxide in air between 1950 to 2000

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(c) Explain the effect of an increased carbon dioxide concentration in the air can have on the environment over a long period of time.

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1. For each of the following materials, state the best materials that can be used for its

manufacture and give reasons for your choice.

(a)teapot ……………………………………………………………………………………………………… ………………………………………………………………………………………………………

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(b) Fishing nets

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(c) Wine bottles

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(d) Electrical wires

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(e) A blanket

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4. Describe the dangers of using plastics on the environment

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7. (a) Why should we recycle materials?

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b) What are problems involved in recycling plastics?

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1. Distinguish between the term period and group

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5,Complete the table below

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| --- | --- | --- | --- | --- | --- | --- |
| Proton number | Name of element | Electronic configuration | Ion formed by the element | Valence of the element | Group pf the element | Period of the element |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 | carbon | 2;4 | C4+ | +4/-4 | 4 | 2 |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
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1. An element P is in period 3 and has a valence of -3.

State the group to which P belongs

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Reason

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The atomic number of P

….……………………………………………………………………………………

Write the electronic configuration of

Element p

….……………………………………………

Ion of p

….………………………………………………………………..

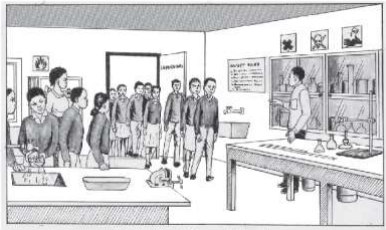
8. What is diffusion?

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Using the concept of diffusion, explain why a sprayed perfume goes around the whole room

1. Read the information below and answer the questions that follow

Chemistry as a subject is sometimes learnt through practical activities known as experiments done in the laboratory. In the laboratory, you will find equipment, materials and chemicals which are used when performing these experiments. Chemical substances used in an experiment are known as reactant substances. Students need to conduct themselves with care and in an orderly manner while in the laboratory so as to avoid injuries and accidents that could occur. Safety rules and regulations have been put in place to guide you as a student when using the laboratory.



1. Write short notes on each of the work areas in a chemistry laboratory
2. Preparation room
3. Storage room
4. Student working area
5. Fume chamber

e) Teacher’s working counter f) Safety exit (10 marks)

ACTIVITY OF INTERGRATION

The land in your neighbouring village is rocky and full of stones and the villagers are asking the government to relocate them to a new area as this land can not be used for agriculture. Balungi a wealth investor is planning to start up a stone quarry in this village but the members have objected his plans and they insist that the stones are completely useless

Task as a friend to some of the villagers prepare a write up to the members giving an appropriate advice