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# S3 END OF TERM I EXAMINATION, 2024 CHEMISTRY PAPER 1

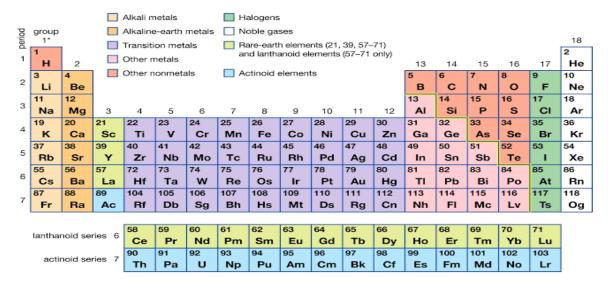
Duration: 1 hour 30 minutes

### **SECTION A**

Answer all items in this section

#### Item 1

John, a senior one student came across a chart in the laboratory. The chart had many symbols of elements with some numbers, written in tabular form with rows and columns. He started wondering. What is this chart all about? Why are these elements arranged this way? He picked interest in the element that was in the second column and the fourth row.



#### **Task**

As a chemistry learner;

(a) Assist him know what the chart is and what the columns and rows mean.	(02 scores)

(b) Explain to	John why the e	element of int	terest is in th	nat position o	of the chart. (03	scores
c) Help John u	nderstand the i	importance of	f the chart in	n chemistry.	(05 scores)	

## **SECTION B**

## Part I

Answer one item from this section

## Item 2

Charcoal, Petrol, diesel and other carbon-based fuels are easy to get and are used on a large scale. However they have the sustainability challenge. The minister of energy and mineral development has organized a conference for students from all over the country with the theme "Sustainability of Carbon based fuels Visa vie the Environment".

You have been chosen to represent the school in the conference and address the conference about the issue.



## **Task**

Write a speech that you will present to the congregation.

#### Part II

Answer one item from this section

## Item 3

During the COVID-19 pandemic there was a shortage of oxygen in hospitals for treating patients in the whole country, yet oxygen is naturally available in air at a considerable 21%. Doctors in the country are trying to prevent the problem from re-occurring. They are looking for ideas on how the oxygen in air can be harvested and stored properly for use when it is needed.



### **Task**

As a chemistry student, make a write up of the process that can be used to get the oxygen from air and stored properly.

**END**