المدرسة الوطنية الأرثوذكسية الشميساني

The National Orthodox School Shmaisani

First Month Assessment | Lower Secondary Stage (6-8)

Name: .....Answer Key.....
Date: / /

Subject: Science
Class: Grade 7
Time: 45 minutes

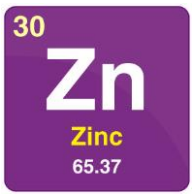
For Teacher's Use	
QUESTION NUMBER	**MARK SCHEME**
1	/1.5
2	/2.5
3	/7
4	/6.5
5	/2.5
Total	**/ 20**

READ THESE INSTRUCTIONS FIRST

- Answer all the questions in the spaces provided on the question paper.
- Write in Blue pen only.
- You should pay attention to *what is required* in each question.
- Number of pages: 3
- Number of questions: 5
- The number of marks is given in brackets [ ] at the end of each question or part question.

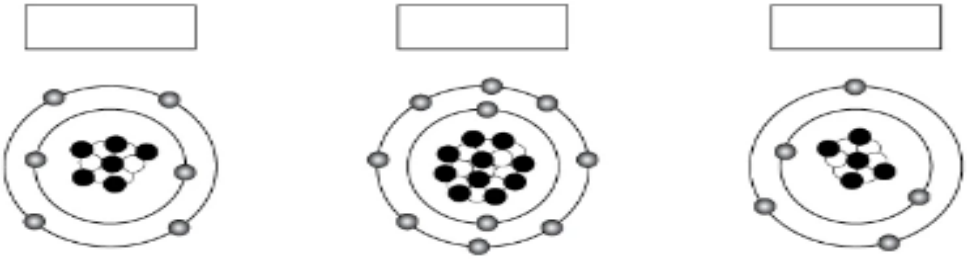
Question one: Use the information about zinc to answer the questions below

1.5 marks



1. The nucleon number is …65.37…
2. The proton number is …30….
3. The number of neutrons is …65.37-30= 35.37..

Question two: Identify the elements from their atomic structure **2.5 marks**



Carbon **Neon** **Boron**

Explain how you find these elements in the same period of the periodic table.

……They all have 2 orbits in their atom…….

Question three: Answer the questions below using the given information about these elements. **7 marks**

	$_{39}K^{19}$	$_{19}F^{9}$	$_{27}Al^{13}$	$_{35}Cl^{17}$	
Element	**Atomic configuration**	**Mass number**	**# Protons**	**# Electrons**	**# Neutrons**
K	**2,8,8,1**	**39**	**19**	**19**	**20**
F	**2,7**	**19**	**9**	**9**	**10**
Al	**2,8,3**	**27**	**13**	**13**	**14**

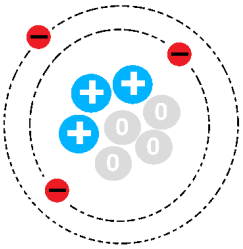
Cl is found in the same period as …Al… and the same group as …F… (choose elements from the given list above)

Question four: Answer the following questions **6.5 marks**

- **An element is found in group 4 period 3, what is its atomic number?**
  ……14…….

- **Write the atomic configuration of another element in the same group as aluminum**
  ……Boron 2,3…….

- **The atomic configuration of He is ……2…., and the atomic configuration of Ar is …2,8,8……. .**
  Explain how you find both He and Ar in the same group of the periodic table.
  ……They both have full outer shells……



- **The diagram represents which element? …Lithium…**
- **What is the atomic number of this atom? ……3…..**
- **The nucleon number of this atom is …7……**

- **Name the two sub atomic particles that have the same relative mass ……protons and neutrons…….**
- **Which sub atomic particles have negative charges? …electrons…**

Question five: Decide if the following statements are true or false **2.5 marks**

1. **Elements of the same group have the same number of orbits in their atomic configuration …F…**
2. **Mass number is the same as the proton number …F…**
3. **A neutron has no charge and a relative mass of 1/2000 …F….**
4. **The atomic configuration of phosphorus is 2,7,6 …F…**
5. **Electrons are the only sub atomic particles that can move …T…**