

Name: _____

Class: _____

Total Possible Marks: 15

Atoms and Molecules

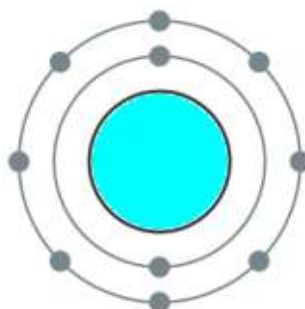


- $\frac{1}{1}$ 1. Describe the structure of an atom using the terms proton, neutron, electron, nucleus and shell in your answer.

- $\frac{5}{5}$ 2. THIS IS A 5 PART QUESTION WHICH CARRIES 5 MARKS

1. What is another name for an electron shell?
2. What is the maximum number of electrons can go into the first shell?
3. What is the maximum number of electrons that can go into the second shell?
4. What is the maximum number of electrons that can go into the third shell?
5. Which shell fills with electrons first?

- $\frac{1}{1}$ 3.



Identify the element shown.

- $\frac{1}{1}$ 4. What is the relative mass of a proton?

— 5. Which element has the electron configuration 2, 8, 6 ?
1

— 6. Which element has the electron configuration 2, 4 ?
1

— 7. Draw the "dot" representation for Oxygen
1

— 8. Draw the "dot" representation of the element Boron
1

— 9. An atom of selenium contains 34 electrons, how many protons does the nucleus of this atom contain?
1

— 10. Atoms are electrically neutral, explain why.
1

— 11. An atom of fluorine has 9 protons in its nucleus, how many electrons does the atom have?
1

