**COSTAATT**

**CHEM 111**

**Lesson 3 – Homework**

1. The modern Periodic Table arranges elements in order of:

(A) atomic mass (B) atomic weight (C) atomic number (D) colour

2. Which element is a metal: Ba (56) or At (85)?

3. Which period is Ca (20) in?

4. What is the number of the group N (7) is in?

5. Which element is an alkali metal: Rb (37) or Al (13)?

6. Which element is a halogen: Na (11) or Cl (17)?

7. Which element is a noble gas: Ne (10) or Br (35) or O (8)?

8. Name three scientists who contributed to the development of the Periodic Table.

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9. What are two differences between Mendeleev’s Periodic Table and the modern Periodic Table?

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10. Chlorine, bromine and iodine are part of Group VII of the Periodic Table.

(a) Explain what is meant by a *Group* of the Periodic Table.

(b) The first member of Group VII is fluorine, which is a gas at RTP. What colour is fluorine gas likely to be?