1. Define Periodic Table

1b. How are elements arranged in the periodic table, and what is the significance of this arrangement?

2.What are the main blocks of the periodic table, and which elements belong to each block?

3. What is an electrovalent bond, and how is it formed?

3b. What is a covalent bond, and how is it different from an ionic bond?

4. Explain the electron donation mechanism in dative bonding and give 3 examples of molecules that contain dative covalent bonds

5. Balance the following equations

1. C3 H8 + O2 —-> CO2 + H2O
2. KCLO3 —> KCL + O2
3. BaCl2 + Na2SO4 —-> BaSO4 + NaCl
4. H2SO4 + NaOH —> Na2SO4 + H2O
5. AL + CuSO4 —> AL2(SO4)3 + Cu

6. State the following laws

1. Boy's law
2. Charles law
3. Graham's law of diffusion
4. Dalton’s law partial pressure