Non-Negotiables: Chemistry Paper 1

1. What are the three subatomic particles?
Answer:
Protons, neutrons, and electrons.

2. What is the charge of a proton?
Answer:
+1 (positive).

3. What is the atomic number of an element?
Answer:
The number of protons in the nucleus.

4. What is a group in the periodic table?
Answer:
A column of elements with similar properties.

5. What type of bonding occurs between metals and non-metals?
Answer:
Ionic bonding.

6. What is a covalent bond?
Answer:
A bond formed when atoms share pairs of electrons.

7. Why do ionic compounds have high melting points?
Answer:
Because there are strong electrostatic forces between ions.

8. What is meant by conservation of mass?
Answer:
Mass is not created or destroyed during a chemical reaction.

9. What is the formula to calculate concentration (in g/dm³)?
Answer:
Concentration = mass ÷ volume

10. What is the relative formula mass (Mr)?
Answer:
The total of the relative atomic masses of all atoms in a compound.

11. What is the pH of a neutral solution?
Answer:
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12. What is produced when an acid reacts with a metal?
Answer:
Salt and hydrogen gas.

13. What is electrolysis?
Answer:
The breakdown of a compound using electricity.

14. What is an exothermic reaction?
Answer:
A reaction that releases energy (heat) to the surroundings.

15. What is the energy transfer in an endothermic reaction?
Answer:
Energy is taken in from the surroundings