CHEMISTRY

1. If **Oxygen** is in a compound, what would its oxidation number be?

   -2

2. Which of the following pH values would **lemon** juice likely have?

   2 because the lower the pH value, the more acidic

3. What is a **pentose**?

   A 5 carbon sugar (Pent = 5) (dose = sugar)

4. What is the oxidation state of the Sulfur atom in Sulfuric Acid **H_2SO_4**?

   6 (each H is +1, each O is -2. All charges have to add to 0. 2+S-8=0, so S=6)

5. How many **neutrons** does carbon 14 have?

   8 (mass# - atomics # = neutrons) 14 - 6 = 8

6. How many **protons** does Potassium have?

   19 (same as the atomic number)

7. How many amino acids are essential for **human** life?

   20 amino acids

8. **Normal** body temperature in **°C**?

   37°C

9. **Normal** body temperature in **°F**?

   98.6°F

10. **Boiling** point of water in **°C**?

    100°C

11. **Boiling** point of water in **°F**?

    212°F

12. **0°K** is equal to____**°C**?

    -273°C

13. The term **Amphoteric** means?

    A substance that can act as both a base & acid

14. What is **Kelvin** based around?

    Absolute zero

15. A compound that is a Hydrogen or proton donor, **corrosive** to metals, causes blue litmus paper to **become** red and becomes less acidic when **mixed** with a base is?

    Acid

16. Mixture of 2 or more **metals** are?

    Alloys

17. Acids:

    - pH less than 7.0

- sour/tart
- Formulas begin with H (Hydrogen)
- Proton Donor

18. 3 types of **radiation** in nuclear chemistry?

    Alpha, Beta & Gamma

19. **Alpha** radiation:

    - Emission of Helium (He) ions in the nuclei
    - Contains 2 protons & 2 neutrons.
    - +2 Charge
    - Largest radiation particle.
    - Can be stopped by piece of paper

20. Type of **Alloy** in which another **metal** is **dissolved** in Mercury (Hg)?

    Amalgam

21. Proteins are made up of?

    Amino Acids

22. **Glycogen** is what kind of starch?

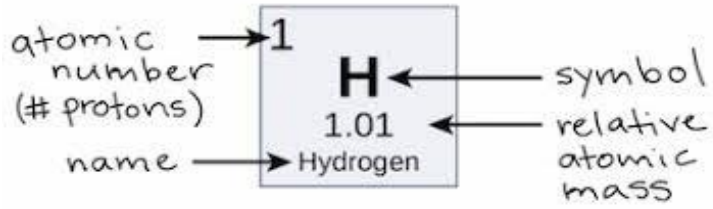
    Animal Starch

23. When an atom GAINS ONE or more electrons?

    Anions (negative ion)

24. Atomic mass?

    Average mass of an elements isotope



25. Atomic #:

    # Of protons in nucleus of an atom