

# CLINICAL CHEMISTRY

## CLINICAL CHEMISTRY

- It is the branch of medical science involved in the analysis of biological materials, usually bodily fluids, to provide diagnostic results on the state of human body

### BASIC ANALYTICAL TECHNIQUES

#### 1. SPECTROPHOTOMETRY

- The measurement of the intensity of light at selected wavelengths
- A useful analytical tool to determine the concentration of colored material in a solution
- Uses prisms or gratings to isolate a narrow range of wavelength of light
- It employs two kinds of light:
  - > **VISIBLE LIGHT**
    - Ultraviolet light = < 400 nm
  - > **INVISIBLE LIGHT**
    - Infrared light = > 700 nm

#### • BASIC PARTS OF A SPECTROPHOTOMETER



## CLINICAL CHEMISTRY ANALYZER



#### 2. NEPHELOMETRY

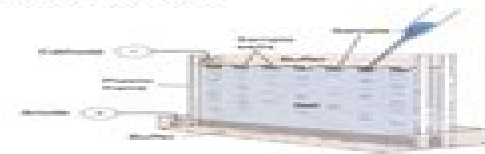
- Light scattered by an unknown substance is measured at right angles
- Depends on wavelength and particle size

#### 3. TURBIDIMETRY

- Measures the amount of light blocked (absorbance) by a suspension of particles
- Depends on particle size and concentration

#### 4. ELECTROPHORESIS

- Charged molecules moves at different rates when pulled through an electrical field
- Cations (positively charged ions) will move to the cathode (negative electrode)
- Anions (negatively charged ions) will move to the anode (positive electrode)



#### 5. FLAME EMISSION SPECTROPHOTOMETRY

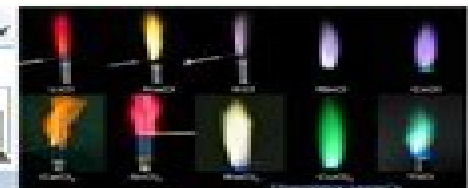
- Measures light emitted by excited atoms
- Certain elements give off a characteristic light after excited atoms return to ground state
  - Y Sodium – intense yellow flame
  - Y Potassium – violet flame
  - Y Calcium – brick red flame



#### 6. ATOMIC ABSORPTION SPECTROPHOTOMETRY

- Measures light absorbed by ground state atoms
- Routinely used to measure the concentrations of trace metals
- Hollow cathode lamp is the usual light source employed

### AES



# Clinical Chemistry In Ethiopia Lecture Note

**Judd E. Hollander**



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