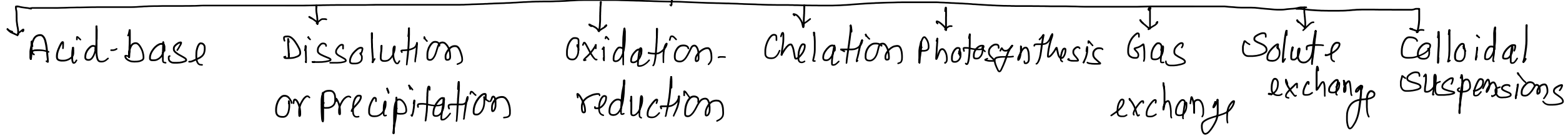
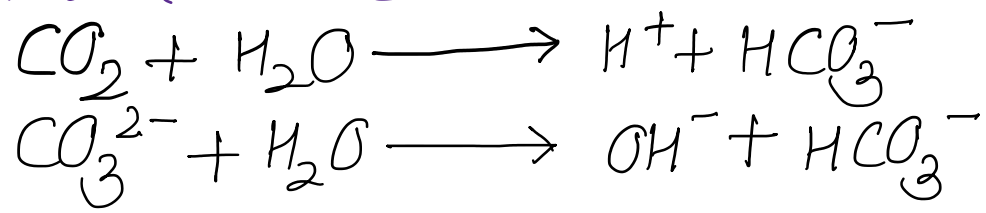


Chemical Reactions Occurring in Water

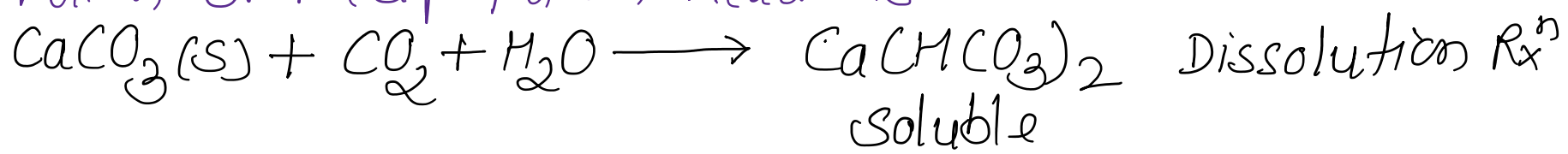
Thursday, 14 January 2021 10:47 PM



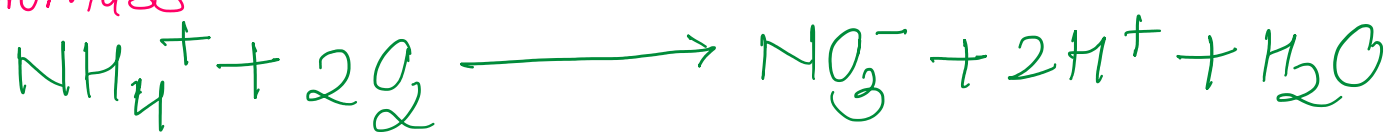
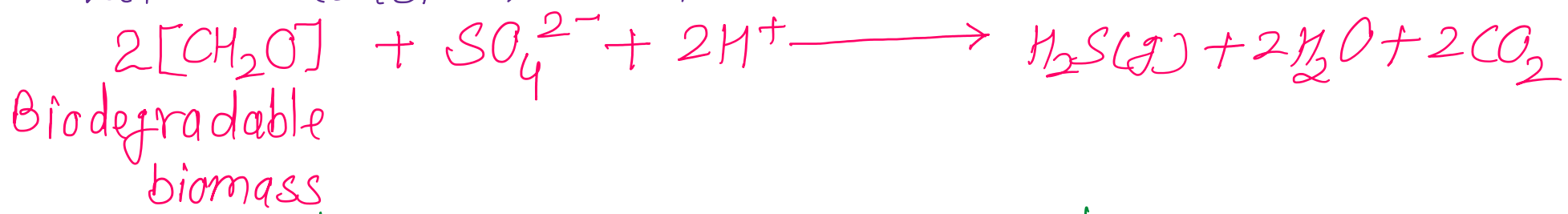
1. Acid-base Reactions:



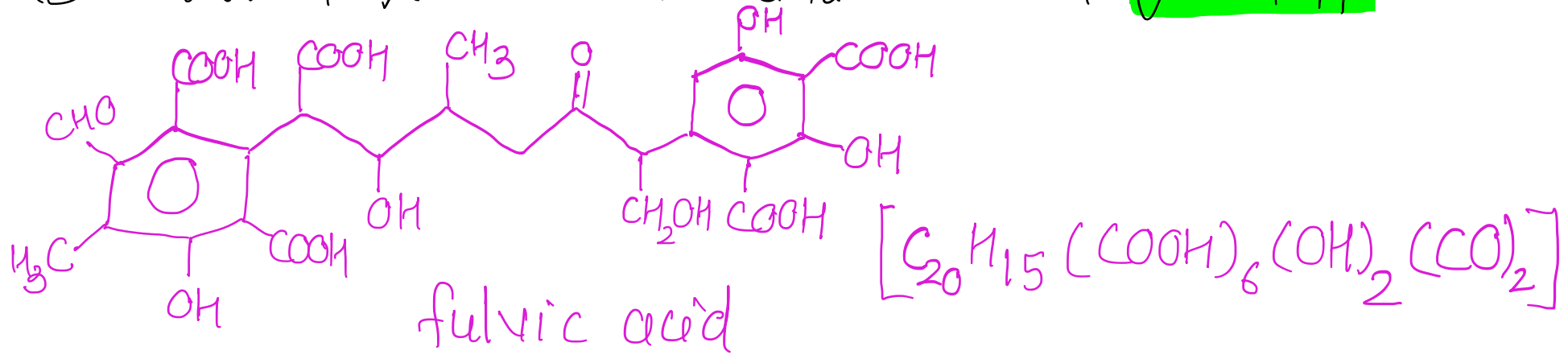
2. Dissolution or Precipitation Reactions:



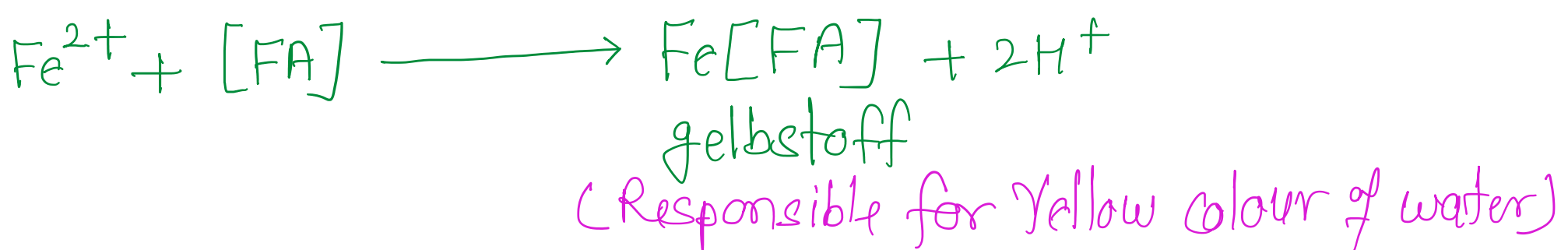
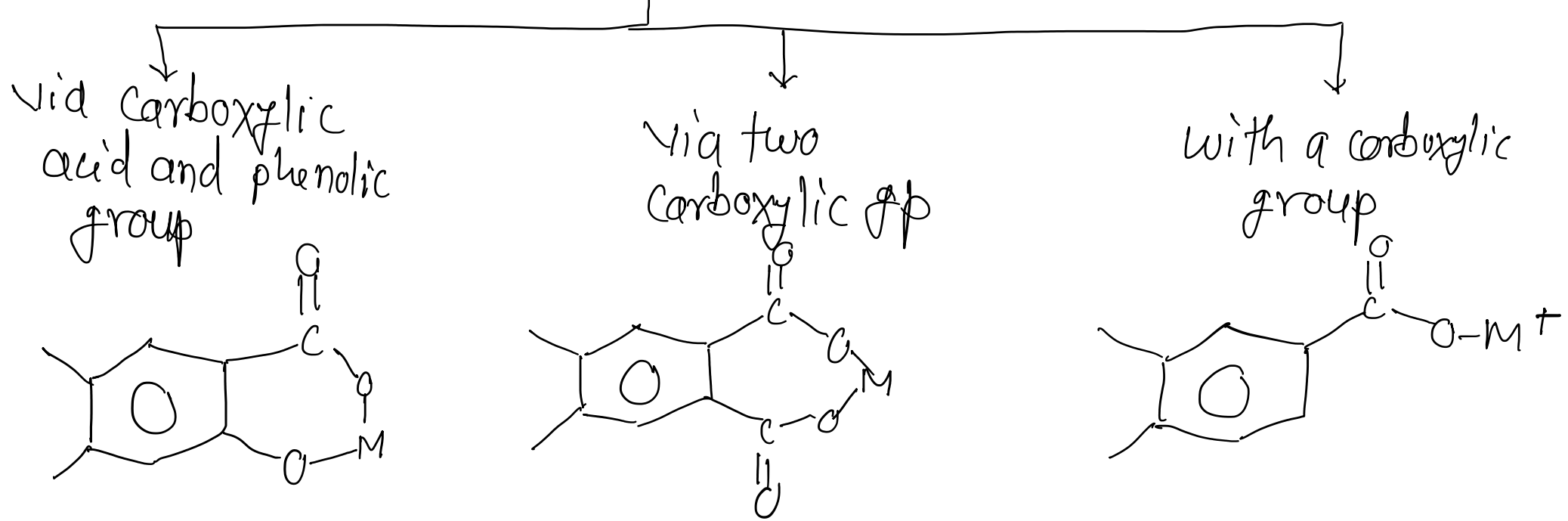
3. Oxidation-Reduction Reactions:



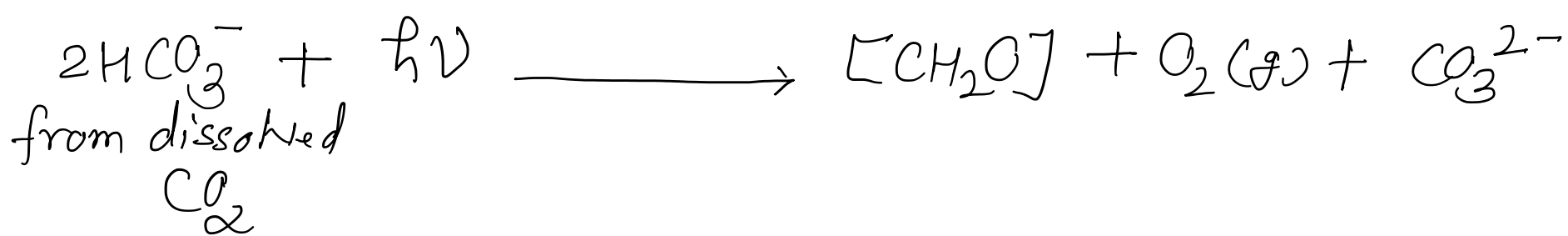
4. Chelation Reactions in which an organic molecule with two or more group capable of binding simultaneously to a metal ion forms a metal chelate. e.g. Binding of fulvic acid (water soluble non-biodegradable organic molecule) molecule [FA] produced by the partial biodegradation of plant matter to an Fe(II) to produce a metal chelate that gives water a yellow colour and is called **gelbstoff**.



Mode of binding of fulvic acid



5. Photosynthesis: by aquatic algae



6. Gas Exchange Reactions:

Primarily O_2 and CO_2 between water and atmosphere.

7. Solute Exchange Reactions: Between water and sediments.

8. Colloidal suspensions: are consisting of very small particles such as clay particles or bacterial cells suspended in water.