1. **Apparatus**
   - Buret and stand
   - Volumetric flask
   - Pipette
   - Measuring cylinders
   - Conical flask

2. **Reagent**
   - 0.1N iodine VS
   - Water
   - 2 N sulfuric acid
   - Starch TS

3. **Procedure**
   Sample: 400 mg of Ascorbic Acid
   Titrimetric system:
   1. Mode: Direct titration
   2. Titrant: 0.1N iodine VS
   3. Endpoint detection: Visual
   4. Blank: 100 mL of water and 20 mL of 2N sulfuric acid. Add 3 mL of starch TS

Analysis:
Dissolve the Sample in a mixture of 100 mL of water and 25 mL of 2N sulfuric acid. Add 3 mL of starch TS, and titrate immediately with Titrant until a persistent violet-blue color is obtained. Calculate the percentage of ascorbic acid (C₆H₈O₆) in the portion of Ascorbic Acid taken:

\[
\text{Result} = \frac{(V-B) \times N \times F \times 100}{W}
\]

- \(V\) = sample titrant volume (mL)
- \(B\) = blank titrant volume (mL)
- \(N\) = titrant normality (mE1/mL)
- \(F\) = equivalent factor, 88.06 mg/mEq
- \(W\) = weight of Sample (mg)