

## BCHY101P FAT

### • Procedure:

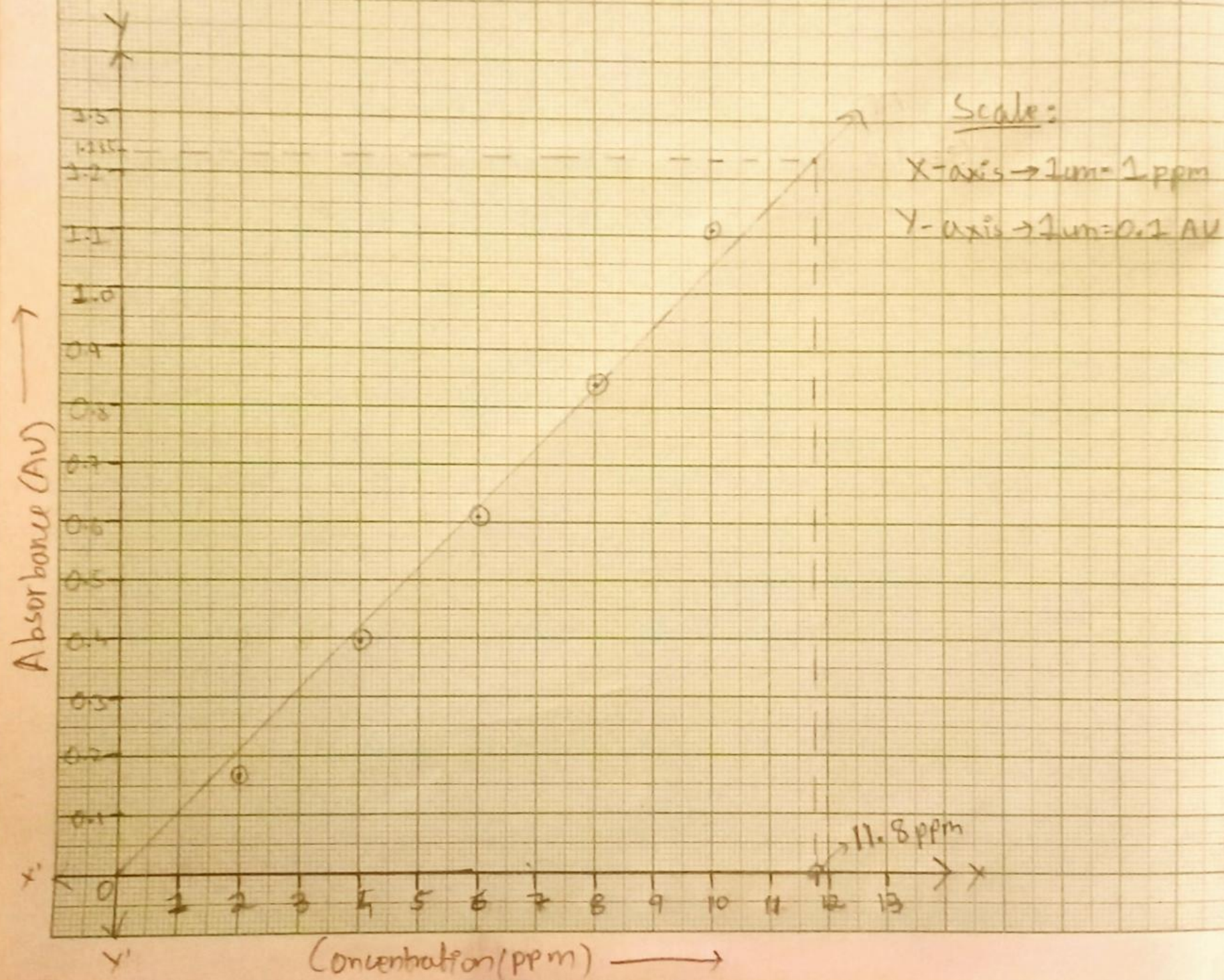
- Take 6 standard 50mL Volumetric flasks (including unknown).
- To every flask add:
  - a) 0.5 mL DMC<sub>2</sub> solution
  - b) 0.5 mL Potassium Ferrocyanide ( $K_3[Fe(CN)_6]$ ) solution using a burette.
- Add Ni Stock solution (1000 ppm) from burette to get 2, 4, 6, 8 and 10 ppm of steel containing Ni(II) solutions.
- All the solutions flask are shaken well and made up to 50mL mark with 1N NaOH solution.
- Allow the flasks to rest atleast 15 minutes after adding all the reagents for complete complex formation.
- Record the absorbance reading in Table.

Concentration (ppm)	Absorbance
2.0000	0.1648
4.0000	0.3920
6.0000	0.6100
8.0000	0.8400
10.0000	1.1100
Unknown = 11.8000	1.2350



# Concentration Vs. Absorbance (Ni(II))

Beer's Law



Result:

According to graph

Concentration of unknown solution = 11.8 ppm