APm: Estimate the concentration of dye (Rhodomine B)
in waste water Sample using UV- visible
Spectrophotometer.

Procedure:

Preparation of solutions:

Prepare the following solutions with the help of the table below:

9. No	volume of Rhodomine-B Stock Solution (me)		Total volume (me)	Final Concentration (UM)
1	1.0	49.0	50	1.0
2	1.5	48.5	50	1.5
3	2-0	48.0	50	2.0
4	2.5	47.5	50	a.5
5	3.0	47.0	50	3.0

Absorption Measurements:

- Oswitch on the UV-1900 spectrophotometer.
- 2) Record full spectrum (450-650 nm) of the first Rhodomine-B Solution (1 MM), and note down the absorbance at 554 nm.
- 3 Similarly, record the absorbance spectra of all other solutions and note the absorbance values at 554 nm.

Results

Oslope of the plot =

Oconcentration of unknown Solution =

Table-1: Absorbance with varying concentration

Rhodamine-B

Rhodamine-6			
S-N0	Rhodamine-B	Absorbance at 554nm	
1	1.0	0.1056	
2	1.5	0.1705	
3	2.0	0.2294	
q	3.5	0.2295	
5	3.0	6.3869	
6	onknown	0.3250	