
18BP036 PHYSICAL PHARMACEUTICS-I LABORATORY

LABORATORY EXPERIMENTS

1. Determination the solubility of drug at room temperature.
2. Determination of p_{ea} value by Half Neutralization/ Henderson Hassel Balch equation.
3. Determination of Partition co- efficient of benzoic acid in benzene and water.
4. Determination of Partition co- efficient of Iodine in CCl₄ and water.
5. Determination of % composition of Nail in a solution using phenol-water system by CST method.
6. Determination of surface tension of given liquids by drop count and drop weight method.
7. Determination of HLB number of a surfactant by Saponification method.
8. Determination of Freundlich and Langmuir constants using activated charcoal.
9. Determination of critical micellar concentration of surfactants.
10. Determination of stability constant and donor acceptor ratio of PABA-Caffeine complex by solubility method.
11. Determination of stability constant and donor acceptor ratio of Cupric-Glycine complex by pH titration method.

RECOMMENDED BOOKS: (LATEST EDITIONS)

1. Physical Pharmacy by Alfred Martin.
2. Experimental Pharmaceutics by Eugene, Parott.
3. Tutorial Pharmacy by Cooper and Gunn.
4. Stocklosam J. Pharmaceutical Calculations, Lea &Febiger, Philadelphia.
5. Libermann H.A, Lachlan C., Pharmaceutical Dosage forms, Tablets, Volume-1to 3, Marcel Dekkar Inc.
6. Libermann H.A, Bachmann C, Pharmaceutical Dosage forms. Disperse systems, volume 1, 2, 3. Marcel Dekker Inc.
7. Physical Pharmaceutics by Ramsey C and ManavalanR.
8. Laboratory Manual of Physical Pharmaceutics, C.V.S. Subramanyam, J. Thimmasetty.
9. Physical Pharmaceutics by C.V.S.Subramanyam.
10. Test book of Physical Phramacy, by Gaurav Jain & Roop K.Khar.

