18BP047 PHYSICAL PHARMACEUTICS-II LABORATORY

LABORATORY EXPERIMENTS

PRACTICAL **3 HOURS / WEEK**

1. Determination of particle size, particle size distribution using sieving method.
2. Determination of particle size, particle size distribution using Microscopic method.
3. Determination of bulk density, true density and porosity.
4. Determine the angle of repose and influence of lubricant on angle of repose.
5. Determination of viscosity of liquid using Ostwald's viscometer.
6. Determination sedimentation volume with effect of different suspending agent.
7. Determination sedimentation volume with effect of different concentration of single suspending agent.
8. Determination of viscosity of semisolid by using Brookfield viscometer.
9. Determination of reaction rate constant first order.
10. Determination of reaction rate constant second order.
11. Accelerated stability studies.

RECOMMENDED BOOKS: (LATEST EDITIONS)

1. Physical Pharmacy by Alfred Martin, Sixth edition.
2. Experimental pharmaceutics by Eugene, Parot.
3. Tutorial pharmacy by Cooper and Gunn.
4. Stocklosam J. Pharmaceutical calculations, Lea & Febiger, Philadelphia.
5. Libermann H.A, Bachmann C., Pharmaceutical Dosage forms, Tablets, Volume-1 to 3, Marcel Dekkar Inc.
6. Libermann H.A, Bachmann C, Pharmaceutical dosage forms. Disperse systems, volume1, 2, and 3. Marcel Dekkar Inc.
7. Physical Pharmaceutics by Ramasamy. C and Manavalan R.