

### 1.3 Pharmaceutics-I (Pharm. Technology-I)

#### Theory

- 1. Pharmacy Profession-** Pharmacy as a career, Pharmaceutical education, Pharmacopoeia of India & Other Countries (B.P.U.S.P. & International etc.)
2. Introduction to different dosage forms, their classification with examples, their relative application.
3. Definitions, general formulation, manufacturing procedures and official products of solutions, aromatic waters, syrups, spirits, elixirs, glycerides, lotions, suppositories, semisolids and powders.
- 4. Dosage forms necessities:** Introduction, Classification and uses of following additives in formulation of different dosage forms: Surfactants, Hydrocolloids, Bases & Vehicles, Stabilizers, Diluents, Organoleptic additives, manufacturing additives etc.
- 5. Crude extracts:** Infusion, decoction, tincture and extracts. Methods of preparation of dry, soft and liquid extracts of IP.
- 6. Allergenic extracts:** Types of allergens, preparation of extracts, testing and standardization of extracts.

#### PRACTICALS

Practicals based on theory such as:

- 1. Aromatic waters:** Cinnamon water (B.P.), Peppermint water (B.P.), Chloroform water (I.P.), Conc. Dill water (I.P.), Conc. Peppermint water (B.P.), Conc. Cinnamon water (B.P.).
- 2. Infusions:** Infusions of quassia (I.P.), Conc. compound infusion of Chirata (I.P.), Conc. compound infusion of Quassia (B.P.).
- 3. Spirits:** Aromatic spirit of ammonia (I.P.), Spirit of Pudina (I.P.), Spirit of Nitrous ether (B.P.).
- 4. Tinctures:** Tinctures of orange (B.P.), Compound tincture of Benzoin (I.P.P.), Compound tincture of Cardamom (I.P.P.).
- 5. Solutions:** Strong solution of ammonium acetate (I.P.P.), Surgical solution of chlorinated soda (I.P.P.). Aqueous solution of Iodine (I.P.). Strong solution of Iodine (I.P.). Strong solution of Lead Subacetate (I.P.P.), Coal tar solution (I.P.), Solution of Ferrous Iodine (B.P.C.). Arsenical solution (I.P.).
- 6. Glycerites:** Glycerin of Tannic acid (I.P.), Glycerin of Borax (I.P.), Glycerin of Boric acid (I.P.), Glycerin of Starch (I.P.).

**7. Syrups:** Simple syrup (I.P.), Syrup of orange (I.P.), Syrup of Lemon (I.P.P.), Syrup of Vassals (I.P.), Syrup of Tolu (I.P.), Compound Syrup of Ferrous Phosphate (I.P.).

**8. Elixirs:** Elixir piperazine citrate (B.P.C), Cassia elixirs (B.P.C.).

**9. Powders:** Simple & Compound.

**Books Recommended:**

1. Remington's Pharmaceutical Sciences, Martin (Mack).
2. Mithal, A Text book of Pharmaceutical formulation, Vallabh Prakashan, Delhi.
3. M.L. Schroff, General Pharmacy Series.
4. Pharmacopoeia of India, Govt. of India, Ministry of Health.
5. Ansel: Introduction to Pharmaceutical Dosage forms.