

First Year Pharmacy
PHARMACEUTICAL CHEMISTRY - I
 (102)

Time : Three Hours

Maximum Marks : 80

- Note :** i) Attempt any five questions.
 ii) All questions carry equal marks

1. a) Define intra and extra cellular electrolytes with examples. Write the physico-chemical properties and uses of sodium chloride and potassium chloride. 8
- b) What do you understand by physio-logical acid base balance. Write the physico-chemical properties and uses of sodium acetate and Ammonium chloride. 8
- ~~2. a) Enlist the official compounds of calcium. Write the properties and uses of calcium gluconate. 8~~
- ~~b) Enlist the official compounds of Iron. Write the physico-chemical properties, preparation and uses of Ferrous sulphate. 8~~
3. a) Write an exhaustive note on applications of radio-isotopes. 8
- b) Write the names of various detectors used in the measurement of radio-activity. Write the construction and working of G.M. Counter. 8
4. a) Write the principle and procedure for the limit test of Arsenic. 8
- b) What are the various sources of impurities in pharmaceutical compounds. 8
5. a) Classify G.I.T. agents with examples. Write the physico-chemical properties and uses of Aluminium Hydroxide and Magnesium Sulphate. 8
- b) Define antioxidants. Write the physico-chemical properties and uses of Boric acid and Sodium metabisulphite. 8

6. a) Define and classify topical agents with examples. Write the physico-chemical properties and uses of Iodine and Zinc sulphate. 8
- b) Write the physico-chemical properties and uses of Tale, Povidone iodine and Hydrogen peroxide. 8
7. Write short notes on any three of the following: 16
 - a) Dental products
 - b) Expectorants and Emetics
 - c) Inhalants
 - d) Acid, base and buffers