

B. Pharm. (First Semester)

EXAMINATION, Dec., 2010

PHARMACEUTICAL CHEMISTRY – II

(Inorganic)

(PY-105)

Time : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 35

Note : Attempt any five questions. All questions carry equal marks. Give equations where necessary.

1. Write down the role and properties of transition metal elements with a special reference to their medicinal importance. **rgpvonline.com** 14
2. (a) Discuss the various sources of impurities in the pharmaceutical products. 7
(b) Define limit test with detailed principle and procedure of limit test of sulphate. 7
3. (a) Discuss the significance of essential and trace elements in the biological system. 5
(b) Write down the role of sodium, potassium and chloride in the maintenance of different physiological body systems. 4
(c) How the acid-base balance is maintained in the body ? 5

4. Give the Chemical and Physical properties and uses of any four of the following : 14
(a) Lithium chloride
(b) Milk of magnesia
(c) Zinc oxide
(d) Ferrous sulphate
(e) Potassium iodide
5. (a) Write down the clinical and medicinal application of Radioisotopes. 8
(b) Write down the hazards related to radiopharmaceuticals. 6
6. Write in brief about the following : 14
(a) Grignard Reagent
(b) Oral Rehydration Solution
(c) Official Haematinics
7. Write short notes on any two of the following : 7 each
(a) Ionization enthalpy and electron gain enthalpy
(b) Potassium permanganate and Hydrogen peroxide
(c) Buffers and their role in Pharmacy