First Year B.Pharm Degree Supplementary Examinations , April 2015

(2010 - Scheme)

PHARMACEUTICAL CHEMISTRY - I

(Inorganic & Physical Chemistry)

Time: 3 Hours

• Answer all Questions.

QP CODE:101006 (Old Scheme)

• Write equations wherever necessary.

Essay

- 1. Define radioactivity and nuclear reaction. Mention the hazards, storage conditions, precautions and clinical applications of I¹³¹ and Co⁵⁸.
- 2. What are the advantages of combination therapy of antacids. Explain the method of preparation, assay and uses of aluminium hydroxide gel and sodium bicarbonate.
- 3. Define a real and an ideal solution. What are colligative properties. Mention a method to analyze the depression of freezing point.

Short notes

- 4. Discuss on the importance of antidotes in poisoning.
- 5. Explain the theory and applications of co-ordination compounds.
- 6. Explain why gases deviate from ideal behavior.
- 7. Discuss on Dentifrices
- 8. Explain the method of preparation, assay and uses of any one electrolyte used for replacement therapy.
- 9. Explain the physiological role of sodium and chloride.
- 10. How assay of oxygen is carried out.
- 11. Explain the assay of boric acid with necessary reactions.
- 12. What is the physiological role of iodine and explain its official solutions.
- 13. Discuss on refractive index and how it is measured.
- 14. Explain electrolyte combination therapy and oral rehydration salt.
- 15. Discuss the mechanism of action and uses of protectives with a note on calamine.
- 16. Mention the principle behind the limit test for iron and sulphate.
- 17. Complete the following:
 - 2KMnO₄ + 10KI +8H₂SO₄ =
 - Fe +H₂SO₄ =
 - AI(OH)₃ + 2HCI =
 - $I_2 + Na_2S_2O_3 =$
 - Ca(OH)2+Cl2 =

Reg.No:

Total Marks: 100

(3x10=30)

(14x5=70)
