QP CODE:101006 (Old Scheme)	Reg.No:
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First Year B.Pharm Degree Supplementary Examinations, February 2017

PHARMACEUTICAL CHEMISTRY - I

(Inorganic & Physical Chemistry)

(2010 - Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Define adsorption. Describe the adsorption isotherms and various factors influencing adsorption.
- 2. Discuss radio pharmaceutical preparations and their clinical applications.
- 3. What are medicinal gases. Explain the preparation, assay and uses of nitrous oxide.

Short notes (14x5=70)

- 4. Dentifrices.
- 5. Describe the limit test for lead.
- 6. Explain the kinetic theory of gases.
- 7. How assay of oxygen is carried out.
- 8. Name one inorganic compound each for the following uses:
 - · Anti-caries agents · sedative · acidifiers · saline cathartics · pharmaceutical aid
- 9. Explain optical activity. Describe the working of polarimeter.
- 10. Mention coordination compounds and mention the role of EDTA in pharmaceutical analysis.
- 11. Electrolyte combination therapy.
- 12. Physiological role of selenium and iron.
- 13. Explain talc and zinc oxide.
- 14. What is an expectorant and explain with suitable examples.
- 15. Explain why gases deviate from ideal behavior.
- 16. Sodium lauryl sulphate and its importance in pharmacy.
- 17. Complete and balance the following equations:-
 - Ca(OH)₂+Cl₂ →
 - Na₂S₂O₃ + I₂ _____
 - NH₄CI + HCHO ----
 - 2KMnO₄ + 10KI + 8H₂SO₄_____
