

Code: 9R01102

B.Pharm I Year (R09) Supplementary Examinations December 2017

**PHARMACEUTICAL INORGANIC CHEMISTRY**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Explain the significance of quality control in pharmacy and discuss the various methods employed.  
(b) Write down the principle and procedure involved in the assay of calcium gluconate.
- 2 (a) Give an account on the preparation, assay and uses of potassium permanganate.  
(b) Write the chemical reactions behind the limit tests for: (i) Arsenic. (ii) Chloride.
- 3 (a) What are expectorants? How will you prepare and test the purity of ammonium chloride?  
(b) Write the chemical formula & uses of: (i) Sodium meta phosphate. (ii) Plaster of Paris. (iii) Tale. (iv) Bentonite.
- 4 (a) What are dental products? Classify with examples. Add a note on anti-caries agents.  
(b) Mention the method of preparation and assay of any one astringent you have studied.
- 5 (a) Write short notes on: (i) Acidifiers. (ii) Dialysis fluids.  
(b) Classify antacids. Explain with examples non systemic antacids.
- 6 (a) List out the sources of impurities in pharmacopoeial products.  
(b) Give an account on acid-base regulators.
- 7 (a) How will you prepare: (i) Potassium chloride. (ii) Boric acid. (iii) Magnesium trisilicate.  
(b) Mention the role of (i) Citric acid in iron limit test. (ii) Ethanol in barium sulphate reagent. (iii) Ferric oxide in calamine. (iv) Potassium iodide in iodine solutions.
- 8 (a) Explain the terms with examples:  
(i) Emetics. (ii) Haematinics. (iii) Diagnostic aids.  
(b) Write the chemical composition of:  
(i) Ringer solution. (ii) Lugol's solution. (iii) Tartar emetic. (iv) Precipitated chalk.

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