

(LM 2007)

MARCH 2018

Sub. Code: 2007

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation SEMESTER – I**  
**PAPER IV – PHARMACEUTICAL INORGANIC CHEMISTRY**

*Q.P. Code: 562007*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on:** **(2 x 10 = 20)**

1. Give the principle reaction involved in the limit test for Arsenic with a neat diagram of the apparatus used for it.
2. Define Radioactivity. How to measure radioactivity and explain the storage condition and precaution to be followed when handling radioactive substance?
3. Give the functions of major physiological ions used as electrolyte in the replacement therapy. Give the composition and uses of Oral rehydration salt.

**II. Write notes on:** **(7 x 5 = 35)**

1. What are antidotes? Give the preparation, properties, assay and uses of Sodium thiosulphate.
2. What are buffers? Give the types of buffers, preparation and stability of buffers used in pharmaceutical substances.
3. What are properties of  $\alpha$ ,  $\beta$  and  $\gamma$  rays?
4. What are Anti-microbials? Write the preparation and assay of Hydrogen peroxide.
5. Brief account about the Iodine and its solution.
6. What are expectorants? Give the preparation, properties, assay and uses of ammonium chloride.
7. Brief history of Indian Pharmacopeia.
8. Write the sources of impurities in pharmaceutical substances.
9. Write about the principle and reaction involved in the limit test of chlorides.

**III. Short answers on:** **(10 x 2 = 20)**

1. Define radio isotopes.
2. Write about the formula of any two emetics.
3. Define cathartics and give the formula of sodium orthophosphate.
4. Write about the formula of any two antacids.
5. Write about the formula, properties and uses of Ferrous Gluconate.
6. What is the use of activated Charcoal?
7. What are dentrifices? Give the role of fluorides in dental products.
8. Define isotonicity.
9. Write about the formula, properties and uses of Calicium gluconate.
10. What are acidifiers with two examples?

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(LN 2007)

SEPTEMBER 2018

Sub. Code: 2007

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation SEMESTER – I**  
**FIRST YEAR**  
**PAPER IV – PHARMACEUTICAL INORGANIC CHEMISTRY**

*Q.P. Code: 562007*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. a) Write the principle and reaction involved in the limit test for Iron.  
b) Write a note on Indian Pharmacopoeia.
2. a) Write about role of fluoride in the treatment of dental caries.  
b) Write a note on Zinc eugenol cement.
3. a) Define and classify antimicrobial with example.  
b) Write about the preparation, assay and uses of chlorinated lime.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Explain the methods of adjusting isotonicity.
2. Write about the preparation, assay and uses of calcium gluconate.
3. Explain the principle and reaction involved in the limit test for lead.
4. Define alum and gives the formula, properties and uses of potash alum.
5. Write a note on Sodium iodide -  $^{131}\text{I}$ .
6. Write about the preparation, assay and uses of copper sulphate.
7. Define antacid and gives a brief note on combination of antacids.
8. Briefly describe physiological acid base balance.
9. Discuss about measurement of radio activity.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Define Haematinics and give example.
2. Write the formula and uses of potassium chloride.
3. Define emetics and give one example.
4. Define Half life period.
5. Principle of limit test for sulphate.
6. Write the principle involved in assay of ammonium chloride.
7. Define astringent and give example.
8. Write about Poison.
9. Define buffer capacity.
10. Write the composition of oral rehydration salt?