

Total No. of Questions : 6]

SEAT No. :

**P1967**

**[5145]-103**

[Total No. of Pages : 3

**F.Y. B.Pharmacy**

**1.1.3T: PHARMACEUTICAL INORGANIC CHEMISTRY  
(2013 Pattern) (Semester - I)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) All questions are compulsory.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Figures to the right indicate full marks.*

**SECTION - I**

**Q1)** Attempt any ONE of the following: **[10]**

- a) Write in detail the different sources of Impurities in Pharmaceuticals.
- b) Explain Limit test of Iron and Lead in detail.

**Q2)** Solve any FIVE of the following: **[15]**

- a) Write a note on ORS.
- b) Discuss the role of Potassium and chloride in our body.
- c) Explain why combination of Aluminium and Magnesium antacid is used?
- d) Define Monograph. Write in brief storage conditions as per I.P.
- e) Write brief history of Indian Pharmacopoeia.
- f) Why water is called as universal pharmaceutical vehicle?
- g) Give the properties and uses of Titanium Dioxide as topical protectives.
- h) What are Antidepressants? Explain Lithium Carbonate as inorganic antidepressant.

**P.T.O.**

**Q3) Solve any two of the following: [10]**

- a) Explain GIT protective and Adsorbent along with one example each.
- b) Write a note on electrolytes used in Acid Base Therapy.
- c) Discuss official control test of water.
- d) Write Physiological role of Copper and Iodine.

### **SECTION - II**

**Q4) Attempt any ONE of the following: [10]**

- a) What are topical agents? Explain mechanism of action of Antimicrobial agents. Discuss Preparation Properties, assay and uses of Hydrogen Peroxide.
- b) Define and classify Antacids. Explain ideal properties of Antacids. How they are evaluated. Write properties and uses of calcium carbonate and Magnesium Hydroxide.

**Q5) Solve any FIVE of the following: [15]**

- a) Define along with examples-i) Anticaries agents, ii) Astringents, iii) Antidotes.
- b) Write storage and labeling conditions for Nitrogen, Nitrous oxide and Helium as inorganic gases.
- c) Write short note on properties and uses of sodium thiosulphate
- d) Write in brief about Sodium Fluoride as Anticaries agent.
- e) Write a note on Zinc as trace ion.
- f) Define Hardness of Water. Enlist methods used to remove temporary and permanent hardness of water
- g) Explain role of lead acetate cotton plug in limit test for Arsenic.

**Q6)** Solve any TWO of the following:

**[10]**

- a) Explain Barium Sulphate as Radio opaque Contrast Media.
- b) Write a note on Aluminium Chloride as an expectorant.
- c) Explain Properties and uses of Oxygen and Carbon dioxide as official Inorganic gas.
- d) What are topical protective agents? Explain in detail Talc and Zinc oxide as protectives.

