

Total No. of Questions : 6]

SEAT No. :

P3139

[Total No. of Pages : 2

[5245]-103

First Year B. Pharmacy (Semester - I)
PHARMACEUTICAL INORGANIC CHEMISTRY (1.1.3T)
(2013 Pattern)

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 books.*
- 3) *Figures to the right indicate full marks.*

SECTION - I

Q1) Attempt any one from the following. **[10]**

- a) What is Hardness of Water? Explain in detail methods to remove Temporary and Permanent hardness of water.
- b) Classify gastrointestinal agents along with examples of each class. Write in detail about saline cathartics.

Q2) Solve any five from the following- **[15]**

- a) Write the preparation properties and uses of calcium carbonate.
- b) Define Monograph. Explain the term Solubility in Monograph.
- c) Explain in brief Acidifying agents.
- d) Explain Bismuth compounds as GI protectives and adsorbents.
- e) Explain Physiological role of Iodine in brief.
- f) Draw well labeled diagram of Gutzeit Apparatus for limit test of Arsenic.
- g) Write Preparation, properties and uses of Ferrous Sulphate.

Q3) Solve any two from the following- **[10]**

- a) Write a note on Limit test of iron.
- b) Write a note on Inorganic gases used in pharmacy.
- c) Electrolytes combination therapy
- d) Write Physiological role of Sodium and Chloride ions.

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SECTION - II

Q4) Attempt any one from the following : **[10]**

- a) Explain in detail electrolytes used in acid base combination therapy.
- b) What are topical agents? Discuss the mechanism of action of topical antimicrobial agents. Discuss properties, uses and assay of Hydrogen Peroxide and Zinc Oxide.

Q5) Solve any five from the following- **[15]**

- a) Explain mode of action of expectorant. Explain Ammonium Chloride as expectorant.
- b) Define along with examples-
 - i) Anticaries agents
 - ii) Astringents
 - iii) Antidotes
- c) Discuss raw material as source of impurity.
- d) Write short note on properties and uses of sodium thiosulphate.
- e) Explain Barium Sulphate as radio opaque contrast media.
- f) Explain different types of Ash values in relation to impurity.
- g) Explain properties and uses of boric acid and copper sulphate.

Q6) Solve any two from the following- **[10]**

- a) Explain in brief electrolyte replacement therapy.
- b) Write a note on Dental Products.
- c) Explain properties uses and storage of Magnesium Hydroxide.
- d) Role of Calcium and Bicarbonate in our body.

