

Seat Number

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T-1.1.3

Pharmaceutical Chemistry – I
(Inorganic Pharmaceutical Chemistry)
(1130)

P. Pages : 2

Time : Three Hours



Max. Marks : 80

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.

SECTION – I

1. Solve **any five**. 10
 - a) Explain the term "Electrolyte Replenisher"
 - b) Define metabolic acidosis and Alkalosis
 - c) What are hematinics
 - d) Enlist various essential and trace elements.
 - e) Give deficiency symptoms of Iron.
 - f) Write preparation methods of ferrous sulfate
 - g) Give the ideal requirements of Antacids.
2. Solve **any four**. 20
 - a) Explain mechanism of Acid-base balance
 - b) Write a note on Nitrous oxide as an anesthetic agent.
 - c) Write a note on limit test for Arsenic
 - d) Explain physiological buffers in details.
 - e) Explain and classify saline cathartics with examples
 - f) Discuss sources of impurities in pharmaceuticals.
3. Solve **any one**. 10
 - a) What do you mean by GIT agents. Give its classification and discuss antacids in detail.
 - b) Write a note.
 - i) Pharmaceutical Buffers.
 - ii) Methods of adjusting Isotonicity.

SECTION – II

4. Solve any five. 10
- a) Write a comment on water as a universal solvent.
 - b) Explain the term Isotonicity.
 - c) Define Respiratory stimulants.
 - d) Define Anesthetics.
 - e) Explain any one method of water softening.
 - f) Give the assay of Iodine.
 - g) Enlist the electrolytes used in replacement therapy.
5. Solve any four. 20
- a) Explain physiological conditions for abnormal amount of Ca, Na, and Fe.
 - b) What is electrolyte combination therapy.
 - c) Write important functions of calcium in human body.
 - d) Give detail account of copper as essential trace element of body.
 - e) Discuss any two compounds use as respiratory stimulants.
 - f) Explain physiological ion in detail.
6. Solve any one. 10
- a) Write a detail note on anionic and cationic inorganic drug useful for systemic effect.
 - b) Write a note on following
 - i) Role of oxygen in healthcare.
 - ii) Explain the role of major extracellular electrolytes.
