

# Question Paper

Exam Date & Time: 09-May-2024 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

~~IV Year Pharm D / I Pharm D Post Baccalaureate~~

University Examination April 2023

### Pharmaceutical Inorganic Chemistry [PCH 1.5T-S3]

Marks: 70

Duration: 180 mins.

#### A: Long Answer Questions

Answer all the questions.

Draw diagrams wherever necessary

- 1) Explain the Quinonoid theory of indicators. (5)
  - a)
  - b) Explain the preparation and standardization of 0.1 N potassium permanganate. (5)
- 2) Explain the method of preparation, assay and uses of sodium bromide. (5)
  - a)
  - b) Give the clinical and diagnostic applications of radiopharmaceuticals. (5)
- 3) Explain the principle and procedure involved in the limit test for chloride and sulphate with equations. (10)

#### B: Short Answer Questions

Answer all the questions.

- 4) Give the preparation, assay and uses of Magnesium carbonate. (5)
- 5) Explain Fajan's method of precipitation titration. (5)
- 6) Give the preparation and assay of Nitrous oxide. Explain the apparatus with neat and labelled diagram. (5)
- 7) Give the preparation, assay and uses of Boric acid. (5)
- 8) How will you prepare 0.1M perchloric acid? What precautions are to be taken during the preparation of acetic perchloric acid. (5)
- 9) Give the preparation, assay and uses of Sodium Chloride. (5)

#### C. Give Reasons for the Following

Answer all the questions.

- 10) Zinc granules are preferred over Zinc dust for reduction in Limit test for arsenic. (2)
- 11) Iodine and manganese are essential ions. (2)
- 12) Digestion is an important step in gravimetry. (2)
- 13) Magaldrate is useful as an antacid. (2)
- 14) Usage of photomultiplier in scintillation counting. (2)

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