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24-PC-21

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

PHARMACEUTICAL CHEMISTRY

Paper - I

[Principles of Inorganic Pharmaceutical Chemistry-II]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe the main sources and effects of impurities get incorporated in Pharmaceutical Chemicals

OR

Describe the limit tests of chloride and Iron.

Q. 2 Discuss synthesis, properties and uses of following inorganic compounds (**any three**) -

- i) Sodium Bicarbonate.
- ii) Magnesium oxide.
- iii) Kaolin.
- iv) Sodium acid Phosphate.
- v) Magnesium Sulphate.
- vi) Zinc Stearate.

Q. 3 What are Emetics ? Give synthesis, properties and uses of following inorganic compounds -

- i) Ammonium Chloride.
- ii) Ammonium Carbonate.

OR

What are Astringents ? Give synthesis, properties and uses of following inorganic compounds -

- i) Alum.
- ii) Aluminium Chloride.

P.T.O.

Q. 4 What are Radio Pharmaceuticals ? Give their basic properties. Also discuss half life of radio elements and production of radio isotopes.

OR

Describe the preparations and uses of following radio active pharmaceuticals-

i) Ferric Citrate Fe^{59}

ii) Iodine 131

Q. 5 a) Give the role of calcium in human body and also point out its deficiency disorders.

b) Discuss importance of Iron in human body. Also explain deficiency disorder of Iron in Human Body.

OR

Describe preparation, properties and uses of following compounds -

i) Calcium Chloride.

ii) Ferric Ammonium Citrate.

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