

**B. PHARMACY FIRST YEAR FIRST SEMESTER
SUPPLEMENTARY EXAM 2024**

Subject: Pharmaceutical Inorganic Chemistry

Ref. No.: Ex/BP104T/2024(S)

Full marks: 75

Time: 3 hours

Answer any **five** questions taking at least **two** from each group.

Group-A

Q1. Define limit test. Why are limit test performed? Discuss the principle, procedure involved in limit test for Arsenic with a neat sketch of the apparatus used.

[1+4+10=15]

Q2. Define and classify gastro-intestinal agents? What are laxatives and cathartics? Classify them with examples. Discuss in brief about the saline cathartics & strong cathartics.

[4+2+4 $\frac{1}{2}$ +2=15]

Q3. What are systemic and non systemic antacid? Give few examples. Write short note on any two non systemic antacids. Name some combined antacid preparation.

[4+8+3=15]

Q4. Distinguish antiseptic and disinfectants. Classify them with examples. Outline the mechanism of action of inorganic germicides. Write short note on H₂O₂ and KMnO₄.

[2+2+3+8=15]

Group-B

5. a) Write in details about major physiological ions.

b) Write a note on buffers.

11 + 4 = 15

6. a) Write a short note on dentifrices and calcium carbonate

b) Write about caries and anti-caries agent.

c) Define desensitizing agents with suitable example.

6 + 7 + 2 = 15

7. a) Calculate half life for radiopharmaceuticals.

b) Write in details about uses of radiopharmaceuticals with suitable examples.

c) How radiopharmaceuticals are stored?

5 + 8 + 2 = 15

8. a) Write about Hematinics and Ferrous sulphate.

b) Classify Antidotes with mechanism and example.

9 + 6 = 15