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B PHARM
(SEM-I) THEORY EXAMINATION 2022-23
PHARMACEUTICAL INORGANIC CHEMISTRY

Time: 3 Hours

Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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1. Attempt all questions in brief. 10 x 2 = 20

- (a) What is pharmacopoeia? Enlist the different Pharmacopoeias.
- (b) What are limit tests? Why are they performed?
- (c) Write WHO composition of ORS solution.
- (d) State the ideal properties of buffer solutions.
- (e) What is achlorhydria? How it is treated?
- (f) What are cathartics? Enlist the inorganic compounds used as cathartics.
- (g) Define Expectorants with suitable examples.
- (h) Define Emetics with suitable examples.
- (i) Differentiate between alpha, beta, and gamma rays.
- (j) What is radioactivity? Give the unit of radioactivity.

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SECTION B

2. Attempt any two parts of the following: 2 x 10 = 20

- (a) Define the term impurity. Discuss about various sources of impurities in pharmaceutical substances.
- (b) What are gastric acidifiers? Describe the preparations, properties, assay, and uses of Ammonium chlorides acidifiers.
- (c) What are anti-microbial agents? Explain the mechanism of action of antimicrobial agents. Discuss the preparations, properties, assay, and uses of Hydrogen Peroxide.

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SECTION C

3. Attempt any five parts of the following: 7 x 5 = 35

- (a) Discuss the apparatus, principle, reaction, and procedure involved in limit test for Arsenic.
- (b) Define electrolyte. Write composition of important physiological ion. Describe the function of sodium, potassium, and calcium as major electrolytes.

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- (c) What is antacid? Describe the preparations, properties, and uses of sodium bicarbonate as an antacid.
- (d) Discuss the method of preparations, properties, assay, and storage of compound used in cyanide poisoning.
- (e) What are Haematinics? Explain method of preparations, properties, and uses of ferrous sulphate.
- (f) Write the precautions to be taken during handling and storage of radioactive substances.
- (g) Discuss in detail about the pharmaceutical applications of radioactive substances with examples.

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