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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

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.

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 chlorideas 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.

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 ofsodium, potassium, and calcium as major electrolytes.

(c) What is antacid? Describe the preparations, properties, and uses of sodium bicarbonate as anantacid.

(d) Discuss the method of preparations, properties, assay, and storage of compound used incyanide poisoning.

(e) What are Haematinics? Explain method of preparations, properties, and uses of ferroussulphate.

(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.