PAPER ID-311541

Subject Code: BP104T

Roll No: | | | | | | | | | | | | | |

BPHARM

(SEM I) THEORY EXAMINATION 2023-24

PHARMACEUTICAL INORGANIC CHEMISTRY– THEORY

TIME: 3HRS **M.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 mechanism of action of hydrogen peroxide which is used as an antimicrobial.
b.	What do you understand by the term monograph.
c.	Name a compound which is used as an acidifier as well as an expectorant.
d.	Which formula is used to represent buffer capacity.
e.	Define radioactivity? What are units of radioactivity.
f.	Write the composition of Zinc Eugenol cement.
g.	How do astringents act.
h.	Why formaldehyde is used in assay of ammonium chloride.
i.	State the principle involved in limit test of Iron.
j.	Write pharmaceutical uses of activated charcoal and sodium thiosulphate.

SECTION B

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

a.	Discuss the term Expectorant. Illustrate the methods of preparation, properties, assay and uses of Ammonium Chloride.
b.	Define the term impurity. Elaborate the various sources of impurities with examples in detail.
c.	Write in detail the precautions and pharmaceutical applications of radioactive substances.

SECTION C

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

a.	Describe the principle, procedure and apparatus used for limit test of Arsenic along with chemical reactions and diagram.
b.	What is an antacid? What are the ideal requirements and uses of an antacid.
c.	Write a note about methods of preparation, properties and uses of Boric acid
d.	Describe the functions of major physiological ions in the body.
e.	What are dental products and how are they used in dental care? Discuss the role of fluoride in the treatment of dental caries and the use of desensitizing agents.
f.	What are haematinics? Give the method of preparation, properties, medicinal uses and assay of ferrous sulphate.
g.	Explain the principle, construction, working and uses of the Geiger-Muller counter with a neatly labelled diagram.

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