Reg. No | | | | | | | | | | |

AY 25

GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR

(GIET UNIVERSITY)

B. Pharm. (First Semester - Regular) Examinations, February – 2026

BP104T – Pharmaceutical Inorganic Chemistry

Time: 3 hrs | Maximum: 75 Marks

Answer ALL questions

(The figures in the right hand margin indicate marks)

PART – A **(10 x 2 = 20 Marks)**

Q.1. Answer ***ALL*** the questions

a. Define pharmacopoeia.
b. Recall Gutzeit test.
c. Tell about hypertonic solution.
d. Recap base or alkali with example
e. Define the term antimicrobial agents.
f. Recall the formula for Sodium Bicarbonate, Aluminium hydroxide gel.
g. State about blue vitriol.
h. Recall Expectorants.
i. Give the example for radioisotopes.
j. State the unit of radio activity.

PART – B **(2 x 10 = 20 Marks)**

Q.No. 2. Answer ***ANY TWO*** questions (Long Answer Question)

a. Describe the role of physiological acid base balance.
b. List the Ideal properties of antacids. Discuss the advantages of combination of antacids with suitable example.
c. Explain about
   a) limit test for Chloride
   b) Indian Pharmacopoeia

PART – C **(7 x 5 = 35 Marks)**

Q. No.3. Answer ***ANY SEVEN*** questions (Short Answer Question)

a. Outline the method of preparation, properties and uses of Ferrous sulphate.
b. Explain Geiger muller counter.
c. Define electrolytes with suitable example. Outline the properties, preparation and uses of sodium chloride.
d. Illustrate the sources of impurities with suitable examples.
e. Describe a detailed note on the classification and mechanism of antimicrobial agents.
f. Define astringents. Explain about zinc sulphate.
g. Outline the important precautions during handling of radio isotopes.
h. Explain in detail about the official preparations of Iodine.
i. Illustrate the preparation, properties, assay and uses of Ammonium chloride.

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