



Library
Pharmaceutical Technology
Brainware University
Barasat, Kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – M.Pharm(PC)-2024

Course Name – Modern Pharmaceutical Analytical Techniques

Course Code - MPC101T

(Semester I)

Full Marks : 75

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Short Answer Type Questions)

5 x 5=25

1. Explain the applications of affinity chromatography in the analysis of drugs and pharmaceuticals. (5)
2. Focus on the steps in the production of X ray. (5)
3. State briefly on Chromophore and Auxochrome. (5)
4. Explain the effect of temperature on dienes as per Woodward-fieser rules. (5)
5. Brief on the effect of Solvent in Fluorimetric analysis. (5)

OR

Define mass spectrometry, explain the principle, and highlight its application in pharmaceutical analysis. (5)

Group-B

(Long Answer Type Questions)

10 x 5=50

6. Illustrate the principle and instrumentation of Thermo Gravimetric Analysis (TGA). (10)
7. Describe the principle and working of potentiometry. (10)
8. (10)

Explain the working of Loop injector device in HPLC.

9. Focus the applications of HPLC and how it differs from HPTLC. (10)

OR

Focus on the various reaction used for the derivatization in Gas Liquid Chromatography. (10)

10. Focus the types of crystals and application of X ray diffraction. (10)

OR

Brief schematically the instrumentation process on Atomic absorption spectroscopy. (10)
