BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – M.Pharm(Pharmaceutics)-2023
Course Name – Modern Pharmaceutical Analytical Techniques
Course Code - MPH101T
(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. State the relationship between Energy,Wavelength and Frequency. (5)
2. Brief on the advantages,disadvantages and limitation sin Flame photometry. (5)
3. Describe the applications of Isoelectric focusing (5)
4. Explain about Electroosmotic flow (5)
5. Illustrate the applications of agarose Gel electrophoresis (5)

OR

Focus the adsorbants used in Thin layer chroatography (5)

Group-B
(Long Answer Type Questions)

10 x 5=50

6. Enumerate in details on types Of Hydrogen Bonding and its affect on dilution. (10)
7. Explain in details what happens when a chemical substance, is exposed to radiation in IR region. (10)
8. Brief schematically the instrumentation process on Atomic absorption spectroscopy. (10)
9. Ennumerate on Overtone and Fundamental Vibrations in IR Spectroscopy. (10)

OR

Enumerate the Effect of Bond Order on IR Spectroscopy. (10)
10. Illustrate the Instrumentation and working of capillary electrophoresis (10)

OR

Explain the equation with diagram about the various HPLC peak parameters required for the analysis of drugs with diagrammatic presentation (10)