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School of Medical and Allied Sciences

Master of Pharmacy in Pharmaceutics

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 30

Sem I - MPC101T / MPH101T / MPL101T - Modern Pharmaceutical Analytical TechniquesGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What do you mean by chromophore and auxochrome. K1 (2)
 - 2) Recall flame colour and emission wavelength of the metals upon heating. K2 (2)
 - 3) Illustrate chemical shift in NMR. K2 (2)
 - 4) What is the principle of IR spectroscopy? K1 (2)
 - 5) Explain spin-spin relaxation. K2 (2)
 - 6) Organize sample handling methods in IR spectroscopy. K3 (5)
 - 7) Examine the types of electronic transitions in a molecule in UV region. K4 (5)
- OR**
- Inspect Relaxation process in NMR. K4 (5)
 - 8) Estimate different modes of molecular vibrations and the factors influencing vibrational frequency in IR spectroscopy. K5 (10)
- OR**
- Conclude the instrumental components of IR spectrophotometer. K5 (10)