

School of Medical and Allied Sciences

Department of Pharmacy

Sessional I

Exam Date: 26 Sep 2023

Time : 90 Minutes

Marks : 30

Sem VII- BPHT7001- Instrumental Methods of Analysis

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Define sigma -sigma electronic transitions. Also give one example. K1 (2)
- 2) Demonstrate the type of transition in bromoethene and ethenethiol. K2 (2)
- 3) Demonstrate the stretching frequency of prop-1-ene. K2 (2)
- 4) What do you mean by wave theory? K1 (2)
- 5) Explain the type of transition in acetic acid. K2 (2)
- 6) Identify the chromophore with examples. K3 (5)

- 7) Analyze the absorption and intensity shifts with graphical representation. K4 (5)

OR

- Analyze the liquid sample preparation technique. K4 (5)
- 8) Explain the factors influencing vibrational frequencies. K5 (10)

OR

- Explain the principle and methodology of TLC. K5 (10)