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School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem IV - S1UB420B - Pharmaceutical InstrumentationGeneral 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 is the range of UV? K2 (2)
- 2) What is the application of gas chromatography? K1 (3)
- 3) How is gas chromatography used for volatile compounds? K2 (4)
- 4) What is the application of IR spectroscopy in pharmaceutical industry? K2 (6)
- 5) Identify what are the components of NMR spectroscopy? K3 (6)
- 6) Utilize what are the sources of light in UV spectroscopy? K3 (9)
- 7) Simplify what are the phases of HPLC chromatography? K4 (8)

- 8) Discuss separation technique for organic compounds by HPLC method K4 (12)

OR

- Discuss the Role of pump in HPLC with diagram K4 (12)