

School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering Semester End Examination - Jun 2024

Duration: 180 Minutes Max Marks: 100

Sem IV - S1UB420B - Pharmaceutical Instrumentation

<u>General Instructions</u> 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)	Which gas is used in GC?	K1(2)
2)	Relate What is the mechanism of quadrupole mass analyser	K2(4)
3)	Describe objective lens and its application	K2(6)
4)	What is the use of NMR in drug discovery?	K3(9)
5)	Interpret the elemental analysis by AAS spectroscopy with example	K3(9)
6)	Discuss the diagram of IR spectroscopy and their applications	K5(10)
7)	Describe how does the IR spectroscopy instrument work	K4(12)
8)	Discuss which of the following detectors is commonly used in HPLC?	K5(15)
9)	Explain where do the protons in benzene appear in the H NMR spectrum?	K5(15)
10)	Illustrate the concept of resolution and magnification of transfer electron microscope	K6(18)