



**SHREE H.N.SHUKLA INSTITUTE OF PHARMACEUTICAL
EDUCATION AND RESEARCH, RAJKOT**



M.PHARM SEMESTER-I, INTERNAL EXAM (2022-23)

Subject code: MAT101T

Date: 06/02/2023

Subject Name: Modern Analytic Techniques

Total Marks: 20

Time: 10:30 AM TO 11:30 AM

Enroll. No:

ATTEMPT ANY FOUR:

- Q.1 Explain with diagram instrumentation of UV visible spectrometry. (5)**
- Q.2 Enlist different types of vibrations in IR-spectroscopy and give its application. (5)**
- Q.3 Write a brief on Nuclear Magnetic Resonance (NMR). (5)**
- Q.4 Write a principle of Mass spectroscopy and discuss any two analyzers. (5)**
- Q.5 Write a Beer-Lambert in brief and give application of UV spectroscopy. (5)**

ALL THE BEST