

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY & RESEARCH

PHARM.D. THIRD YEAR FIRST INTERNAL EXAMINATION: 2021-2022

Subject Name: Pharmaceutical Analysis

Subject Code: 08207302

Time: 10.00 am to 11:30 am

Date: 27/07/2021

Marks: 30

Instructions:

- 1. Make suitable assumptions wherever necessary.**
- 2. Figures to the right indicate full marks.**

I. Long Essay. (Answer Any One)

10 X 1 = 10M

1. Mathematically derived Lambert beers Law and its deviation and give statement.
2. Briefly explain UV-VISIBLE Instrumentation, each and every Parts detail with neat and clean Labelled Diagram.

II. Short Essay. (Answer Any Two)

5 X 2 = 10M

1. Write a detail note on Molecular Vibration with examples.
2. Write down basic principle of UV VISIBLE spectroscopy.
3. What is Multicomponent Analysis? Explain Simultaneous Equation Method.

III .Short Answers. (Answer All)

2 X 5 = 10M

1. Give the difference between Auxochrome and chromospheres with example.
2. Explain Types of Electronic Transition.
3. Write down Basic principle of IR Spectroscopy.
4. Give the difference between forbidden and allow Transition.
5. Write down application of IR spectroscopy.

******* BEST OF LUCK *******