

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY

B.PHARM EIGHT SEMESTER · INTERNAL EXAMINATION: 2018-19

Subject Name: Pharmaceutical Analysis-IV

Subject Code: 08101452

Time: 10:00-11:30am

Date: 15/03/2019

Total Marks: 25

Instructions:

1. Question 1 is compulsory
2. Attempt any 2 questions from Q.2 to Q.4
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** (a) Explain Jablonski diagram. **04**
- (b) What are different types of chromatography? What is the principle of TLC? **03**
- (c) What are the applications of flame photometry? **02**
- Q.2** (a) Explain Principle of atomic absorption spectroscopy. **03**
- (b) Explain terms : (i) Resolution (ii) Theoretical Plates (iii) HETP. **03**
- (c) What is the importance of Bragg's law in crystal characterisation? **02**
- Q.3** (a) Draw a well labelled diagram of HPLC & enlist components of instruments of HPLC. What are the ideal characteristics of pump and tubing? **05**
- (b) Describe single beam fluorimeter. **03**
- Q.4** (a) Comment: HPTLC is better analytical technique compare to HPLC and TLC. **05**
- (b) Describe generation of X-Rays. **03**
