

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY
PARUL INSTITUTE OF PHARMACY

B.PHARM EIGHTSEMESTER · INTERNAL EXAMINATION: 2018-19

Subject Name: DOSAGE FORM DESIGN

Subject Code: (08101453)

Time: 10:00-11:30 am

Date: 16/03/2019

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) Write a note on Polymorphism giving examples. **04**
(b) Explain mutual prodrugs. Describe the prodrug design for improvement of stability and bioavailability giving suitable examples. **03**
(c) Enumerate Objectives of Preformulation studies **02**
or
What are temperature and humidity requirements for performing stability study according to ICH guideline?
- Q.2** (a) Discuss factors affecting on dissolution of drug. **03**
(b) Classify Biodegradable polymers based on their mechanism of degradation. **03**
(c) Enumerate techniques for improvement in drug solubilization. **02**
- Q.3** (a) Explain biopharmaceutics and pharmacokinetic properties of drug for design and development of Controlled drug delivery system **05**
(b) How dissolution data are compared? Describe comparison based on f_1 and f_2 . **03**
- Q.4** (a) Discuss the approaches for development of controlled drug delivery system. **05**
(b) What is accelerated stability testing? How can it be correlated with real time stability? **03**
