

Roll No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF PHARMACY**  
**B.PHARM FOURTH SEMESTER**

**SECOND INTERNAL THEORY EXAMINATION: 2018-19**

**Subject Name:** Physical Pharmaceutics II

**Subject Code:** BP403T

**Time:** 10:00 am to 11:15 am

**Date:** 16/03/2019

**Total Marks:** 30

**Q.1 Multiple Choice Questions:**

- (1) Oxidation of Ascorbic Acid depends on 01  
a)  $\text{Cu}^{++}$  Metal b) Free Oxygen c)  $\text{H}^+$  ions d) All of the Above
- (2) Tablet of paracetamol 500 mg will contain \_\_\_\_\_ mg of paracetamol at  $t_{1/2}$ . 01  
a) 100 mg b) 250 mg c) can't say d) Data is insufficient
- (3) Hydrolysis can be prevented by 01  
a) Complexation b) Removal of Water c) Reducing solubility d) All of the above
- (4) Sigmoid distribution curve can be obtained with 01  
a) Cumulative frequency distribution curve b) log normal distribution curve  
c) Normal Distribution Curve d) None of the above
- (5) Using Coulter counter method we can measure 01  
a) Sieve Diameter b) Feret Diameter c) Martin Diameter d) Volume Diameter
- (6) Higher value of Angle of Repose suggests 01  
a) poor flow b) Excellent flow c) Can't say d) both A & B
- (7) After Tablet compression for plastic substance porosity will be 01  
a) Zero b) Reduced c) Increased d) No Change
- (8) If bulk density of a powder is 0.5 gm/ml, which is the capacity of the container will be suitable to fill 50 Kg of the powder 01  
a) 60 L b) 25 L c) 150 L d) Both A & C
- (9) By using Methylene Blue dye & observing under microscope blue drops were observed so, emulsion is 01  
a) w/o b) o/w c) oil as continuous phase d) Both A & C
- (10) Very dilute o/w emulsion will show 01  
a) Newtonian Flow b) plastic flow c) pseudo plastic flow d) Thixotropy

Roll No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

PARUL UNIVERSITY  
PARUL INSTITUTE OF PHARMACY  
B.PHARM FOURTH SEMESTER  
SECOND INTERNAL THEORY EXAMINATION: 2018-19

Subject Name: Physical Pharmaceutics II

Subject Code: BP403T

Time: 10:00 am to 11:15 am

Date: 16/03/2019

Total Marks: 30

**Instructions:**

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

- Q.2** Long Answers: (Any One)
- |     |   |    |
|-----|---|----|
|     | Explain Mechanism of different kind of emulsifying agent.   | 10 |
| (1) | What is order of reaction?  | 10 |
| (2) | Derive the equations of reaction rate constant, half life and shelf life of a first order reaction. (write the appropriate units wherever applicable) |    |
- Q.3** Short Answers: (Any Two)
- |     |  |    |
|-----|--|----|
|     | Explain Helium Displacement method.                              | 05 |
| (1) | Write about physical degradation of pharmaceutical products.     | 05 |
| (2) | How can you determine stability of a suspension by sedimentation | 05 |
| (3) | volume F?  |    |

\*\*\*\*\*