

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

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

**FIRST INTERNAL THEORY EXAMINATION: 2019-20**

**Subject Name: Pharmaceutical Engineering**

**Subject Code: BP304T**

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

**Date: 17/08/19**

**Total Marks: 30**

**Instructions:**

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

- Q.2** Long Answers: (Any One)
- (1) What is filtration and classify its types? Write down the theory of filtration. Differentiate surface filtration and depth filtration. **10**
  - (2) Define mixing. What factors affect the preparation of a mixture? How is solid mixing different than liquid mixing. **10**
- Q.3** Short Answers: (Any Two)
- (1) Explain in detail Bag filter. **05**
  - (2) Write in detail an equipment assembly working on the principle of centrifugal force. **05**
  - (3) What are the modes of size reduction and give example of equipment of working on each mode. **05**

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