

Total No. of Questions : 6]

SEAT No. :

**P1971**

**[5145]-201**

[Total No. of Pages : 2

**First Year B.Pharmacy**  
**1.2.1 (T) : PHARMACEUTICS - II**  
**(2013 Pattern) (Semester - II)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat labeled diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*

**SECTION - I**

**Q1)** Give advantages, disadvantages, types of plastic as pharmaceutical packaging material. Describe evaluation tests for plastic. **[10]**

OR

Discuss centrifugation. Write construction of separators working on the principle of centrifugation.

**Q2)** Answer the following (Any 5): **[15]**

- a) Describe the construction and working of Ball Mill.
- b) Discuss the role of packaging in pharmaceutical products.
- c) What are applications of size separation?
- d) What is filter aid and what are its ideal characteristics?
- e) Draw neat and well labeled diagram of Hammer mill.
- f) What are the types of glass?
- g) Write the pharmaceutical significance of size reduction.

**Q3)** Write short note on (Any 2): **[10]**

- a) Rotary filter.
- b) Standards of sieves.
- c) Blister packing of unit dosage forms.
- d) Factors affecting size reduction.

*P.T.O.*

## SECTION - II

**Q4)** Describe the mixing technologies for oral solutions. Add a note on deaeration. **[10]**

OR

Draw and explain general layout of pharmaceutical manufacturing plant.

**Q5)** Answer the following (Any 5): **[15]**

- a) Write on mixing of powders.
- b) Discuss in brief bioequivalence and generic products.
- c) Describe baffles and their application in mixing operation.
- d) Write on passive absorption.
- e) What is first pass effect?
- f) Write on non renal routes of excretion.
- g) Write on planetary mixer.

**Q6)** Write short note on (Any 2): **[10]**

- a) Packing of oral solution.
- b) Plasma drug concentration - Time profile.
- c) Metabolism.
- d) Good Manufacturing Practices.

