

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.

