

Total No. of Questions : 6]

SEAT No. :

P3143

[Total No. of Pages : 2

[5245]-201

First Year B. Pharmacy (Semester - II)

1.2.1(T) PHARMACEUTICS - II

(2013 Pattern)

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) Write on glass as a packaging material for pharmaceutical dosage forms. [10]

OR

Describe construction, working, advantages, disadvantages of rotary filter with neat diagram.

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

- a) Describe the construction and working of End Runner Mill.
- b) Write the pharmaceutical significance of size reduction.
- c) What are non renal routes of excretion?
- d) Describe cGMP's related to sanitation.
- e) What is filter aid and what are its ideal characteristics?
- f) Draw neat and well labeled diagram of Hammer mill.
- g) Give powder gradation as per British Pharmacopoeia.

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

- a) Filter press.
- b) Colloidal mill.
- c) Sieving.
- d) Evaluation of plastic as packaging material.

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SECTION - II

Q4) Discuss various components of Good Manufacturing Practices. **[10]**

OR

Describe the filling technologies for oral solutions.

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

- a) Describe and differentiate between active and passive absorption.
- b) What is first pass effect?
- c) Write on mixing of solids.
- d) Discuss in brief renal excretion.
- e) Explain the term 'Area under the curve' with its therapeutic significance.
- f) Describe the terms- pharmacokinetics and pharmacodynamics.
- g) Why phase II metabolic reactions are called as conjugation reactions?

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

- a) Planetary mixer.
- b) Prevention of aeration and foam.
- c) Departments in pharmaceutical manufacturing unit.
- d) Triple roller mill

