



**RC-1501-02**

**First Year D. Pharm. (Theory) Examination**  
**April / May – 2010**  
**Pharmaceutics - I**

Time : 3 Hours]

[Total Marks : 80

**RC-1501**

**Instructions :**

(1)

नीचे दर्शाविए निम्नलिखित विगतो उत्तरवडी पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F. Y. D. Pharm. (Theory)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Pharmaceutics - I"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="0"/> <input type="text" value="1"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1"/>	
	Student's Signature

(2) Attempt all questions from each section.

(3) Answer and submit **both** sections **separately**.

**1** Attempt any **four** of the following : **12**

- Explain the construction and working of colloidal mill.
- What are syrups ? How do they differ from elixirs ?
- Describe different types of maceration process.
- Differentiate between purified water and water for injection.
- Explain the theory of fractional distillation.

**2** Attempt any **three** of the following : **12**

- Define and classify biphasic liquid dosage form giving suitable examples.

- (b) Describe the process of infusion. Discuss the different types of infusions.
- (c) Explain the principle, working, advantages and disadvantages of evaporating pan.
- (d) Enumerate the factors affecting liquid and powder mixing.

**3** Attempt any **four** of the following : **16**

- (a) Write a short note on Ball mill.
- (b) Discuss mechanisms of size reduction in detail with suitable example.
- (c) Explain the various grades of powder official in the pharmacopoeia.
- (d) Write a short note on planetary mixer.
- (e) Explain in detail about filter press.

## RC-1502

### Instructions : (1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
**F. Y. D. Pharm. (Theory)**

Name of the Subject :  
**Pharmaceutics - I**

Subject Code No. : **1 5 0 2** Section No. (1, 2,.....): **2**

Seat No. :

Student's Signature

- (2) Attempt all questions from each section.  
(3) Answer and submit **both** sections **separately**.

4 Attempt any **four** of the following : **12**

- (a) Define emulsion. Why is emulsifying agent required in the preparation of emulsions ?  
(b) Describe advantages and disadvantages of capsules.  
(c) Discuss any two types of tablets that are used in oral cavity.  
(d) Describe various factors which affect evaporation of a liquid.  
(e) Differentiate between 'Double maceration' and 'Triple maceration'.

5 Attempt any **three** of the following : **12**

- (a) Briefly discuss BCG vaccine.  
(b) Briefly discuss dissolution and disintegration tests of tablets.  
(c) Describe the factors which may influence the efficiency of ethylene oxide.  
(d) Write a note on pasteurization and tyndallisation.

6 Attempt any **four** of the following : **16**

- (a) How will you classify different dosage forms ? Write in detail about solid dosage form.  
(b) Define capsule. Write excipients used in filling of hard gelatin capsules.

- (c) Describe natural and acquired immunity.
  - (d) Write a note on sugar coating.
  - (e) Discuss the principle, construction and working of fluidized bed dryer.
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