



**SB-1172**

**Final Year B. Pharm. Examination**

**March / April – 2011**

**PH-402 Pharmaceutics : Paper - VI**

*(Pharmaceutical Technology and Industrial Pharmacy)*

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
Final Year B. Pharm.	<input type="text"/>
Name of the Subject :	<input type="text"/>
PH-402 Pharmaceutics : Paper-6	<input type="text"/>
Subject Code No. : <input type="text"/> 1 <input type="text"/> 1 <input type="text"/> 7 <input type="text"/> 2	Student's Signature
Section No. (1, 2,.....) : <input type="text"/> 1&2	

(2) Answer and submit both sections separately.

(3) Figures to the right indicate marks.

**SECTION : I**

1 Attempt any FIVE of the following : 10

- (1) Classify pharmaceutical tablets according to their routes of administration.
- (2) Enumerate the various sources of contamination for parenteral dosage form.
- (3) Write importance of HLB on stability of emulsion.
- (4) Write various selection criteria for tablet diluents.
- (5) Explain the term Quality assurance and Quality control.
- (6) Why is shear plane of electric double layer considered as true surface of drug in dispersions ? What is its effect on stability of dispersion ?
- (7) Explain Disintegration test of tablets.
- (8) Write short note on LAL test.

- 2** Attempt any **FOUR** of the following : **16**
- (1) Write a note on dispersible tablets.
  - (2) Explain quality control tests for tablets.
  - (3) Write a note on evaluation of suspensions.
  - (4) Enlist methods for preparation of microencapsules and discuss applications of microencapsulation.
  - (5) Write a short note on evaluation of aerosols.
  - (6) Classify semi-solid dosage forms. Write a note on formulation and packaging of semi solid dosage forms.

- 3** Attempt any **THREE** of the following : **09**
- (1) Describe the principal ingredients used in formulation of semisolids dosage forms.
  - (2) Differentiate the hard gelatin capsules from soft gelatin capsules. Briefly discuss the gelatin specifications required for capsule manufacturing.
  - (3) Write a note on additives used in ophthalmic preparations.
  - (4) Write a note on pharmaceutical imperfections observed on coated tablet.

## SECTION : II

- 1** Attempt any **ELEVEN** of the following : **11**
- (1) Which manufacturing method is preferable to prepare Paracetamol Tablets ? Justify the answer.
  - (2) Enlist film defects in tablet coating.
  - (3) Write suitable examples of Diluents and Lubricants.
  - (4) Enlist the different tests for rubber closures.
  - (5) Give function and examples of disintegrants used in tablet dosage form.
  - (6) Give four examples of solubilizers in liquid dosage forms.
  - (7) Is there any difference between overages and overflow volume. What are the reasons to add overages and overflow volume ?

- (8) Write chemical name of Propellant 114.
- (9) Explain with examples : glidants and anti adherent.
- (10) Write the properties of WFI.
- (11) Write down chemical reaction involved between alcohol and aluminum container ?
- (12) Define coarse powder and fine powder as per IP 2007.
- (13) What do you mean by "Wet granulation technique in tablet preparation"?
- (14) Give the full form of "SOP" and "HLB value".
- (15) Comment : Cold filling method is used to fill hydrocarbon aerosols.

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

- (1) Briefly discuss the formulation, preparation and packaging of following preparations.
  1. Hair Shampoo
  2. Lipstick
- (2) Describe various quality control tests for parenterals and explain sterility testing in detail.
- (3) Write note on various type of glasses as described by USP and NF.
- (4) Discuss the cGMP guidelines given for equipments used in pharmaceutical manufacturing.

**6** Attempt any **TWO** of the following : **12**

- (1) Discuss all the sequential steps involved in the manufacturing of tablets and their importance. Write steps in tablet compression cycle.
- (2) Explain soft gelatin capsule manufacturing by Rotary die process.
- (3) What do you mean by Lyophilization ? Explain lyophilization in detail with schematic diagram.