

Shree H. N. Shukla Institute of Pharmaceutical Education and Research
B. PHARM. – SEMESTER-6 • EXAMINATION – SUMMER -2021

Subject Code: BP605TP**Date:06-04-2021****Subject Name: Industry Pharmacy -I****Time: 10:30am to 1:30pm****Total Marks: 100****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define Preformulation. What is the significance of particle size & size distribution in formulation? **06**
- (b) What is polymorphism? What is its significance in dissolution? Name the methods to identify polymorphs. **05**
- (c) Describe the influence of solvents and surfactants on solubility. **05**
- Q.2** (a) Describe Preformulation study for preparation of oral tablets. **06**
- (b) Define tablet. Write down its advantage and disadvantage in detail. **05**
- (c) Discuss in brief following tests for tablet: **05**
- 1) Disintegration test
- 2) Dissolution test
- Q.3** (a) Write down the principles of tablet coating. Explain the steps of sugar coating. **06**
- (b) Explain the IPQC and processing problem associated with tablet manufacturing. **05**
- (c) What are soft gelatin capsules? Describe rotary die process for their preparation. **05**
- Q.4** (a) Explain various compositions of hard gelatin capsules. **06**
- (b) Define Capsules. Write the quality control tests on Hard Gelatin Capsules. **05**
- (c) Discuss various techniques for drug solubilization with mechanisms. **05**
- Q.5** (a) Draw the compression cycle of a rotary tablet press with explanation. **06**
- (b) What are objectives of enteric coating? Describe polymers used for enteric coating. **05**
- (c) Explain the method of production of gelatin and hard gelatin capsules with flow diagram. **05**
- Q. 6** (a) Explain the formulation and types of filling operation in hard gelatin capsules. **05**
- (b) Write on any two: 1) binders 2) disintegrants 3) lubricants **05**
- Q.7** (a) Enumerate defects observed in tablet compression process. Explain capping and lamination with its causes and remedies. **05**
- (b) Compare and contrast the process of wet granulation and dry granulation for tablets. **05**
