

**NRT/KS/19/3179**

**B.Pharm. Semester–VII (C.B.S.) Examination**  
**PHARMACEUTICS (DFT–I) CONVENTIONAL**  
**Paper–1**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) Question No. **1** is compulsory.

(2) Attempt any **four** questions out of remaining.

(3) All questions carry marks as indicated.

(4) Draw neat labelled diagram wherever necessary.

1. Solve any **five** :

(a) Give the significance of solubility study in preformulation.

(b) Give steps involved in sugar coating of tablet.

(c) What are softgels ? Describe methods of its preparation.

(d) What are sterile dosage form ? Describe routes of parenteral administration.

(e) Give the advantages and disadvantages of hard gelatin capsules.

(f) Give the excipients used in tablet formulation.

(g) Describe the terms compression and consolidation. Give their significance in tablet manufacturing.

5×4=20

2. (a) Discuss the role and importance of crystal structure and polymorphism study in preformulation.

8

(b) Describe in detail different methods of tablet manufacturing.

7

3. Describe the various processing problems and defects of tablet with remedies for them.

15

4. Discuss the compounding, processing and sterilization of sterile dosage form with special emphasis on excipients used in it.

15

5. (a) Describe the effect of hydrolysis, oxidation, reduction and polymerization on stability of drug and formulation.

8

(b) Describe types of ointment bases and evaluation process for it.

7

6. Describe types of tablet coating with special emphasis on coating process and equipments.

15

7. Write short notes on (any **three**) :

(a) Manufacturing of hard gelatin capsule shell.

(b) Cold creams and Vanishing creams.

(c) Pyrogen test.

(d) Dentifrices.

5×3=15