

(LH 4267)

AUGUST 2015

Sub. Code: 4267

**FOURTH YEAR B.PHARM. EXAMINATION**  
**PAPER I – FORMULATIVE PHARMACY AND BIOPHARMACEUTICS**

*Q.P. Code: 564267*

**Time: Three hours**

**Maximum: 100 marks**

**I. Essay:** (2 x 20 = 40)

1. What are pre-formulation studies? Explain about physiochemical properties of the drugs that are determined in pre-formulation studies and their importance.
2. Write a note on objectives of tablet coating. Explain the different types of coating and evaluation of coated tablets.

**II. Short notes:** (8 x 5 = 40)

1. Liposomes.
2. Drug elimination
3. Hard gelatin capsules.
4. Microencapsulation by co-acervation phase separation.
5. Techniques used in design of prolonged action dosage form.
6. Write preparation and application of nanoparticles.
7. Factors affecting drug absorption.
8. Invitro - invivo correlation.

**III. Short answers:** (10 x 2 = 20)

1. Total body clearance.
2. Composition of soft gelatin capsules.
3. Coating materials in microcapsules.
4. Define pharmacokinetics.
5. Renal clearance.
6. Spray drying.
7. Bioequivalency testing.
8. What is bloom strength?
9. Classification of different types of tablets.
10. Anti-oxidants.

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