

(LO 4267)

**FEBRUARY 2019**

Sub. Code: 4267

**B.PHARM. DEGREE EXAMINATION  
FOURTH YEAR  
PAPER I – FORMULATIVE PHARMACY AND BIO-PHARMACEUTICS**

*Q.P. Code: 564267***Time: Three hours****Maximum: 100 Marks****I. Elaborate on:****(2 x 20 = 40)**

1. Write the advantages and limitation of prolonged action pharmaceuticals. Write about two method of preparation and evaluation of prolonged action pharmaceuticals.
2. Write the goals of pre-formulation studies. Explain the physical properties of drugs in pre-formulation studies and their importance.

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

1. Methods to enhance the solubility of poorly soluble drugs.
2. Microencapsulation by air suspension technique.
3. Dissolution testing.
4. Drug excipient compatibility studies.
5. Physico-chemical factors affecting drug absorption.
6. Evaluation of transdermal patches.
7. Filling of Hard capsules.
8. Accelerated stability studies.

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

1. Permeation enhancers.
2. Biopharmaceutics.
3. Partition co-efficient.
4. Polymorphism.
5. Various sizes of hard capsule.
6. Renal clearance.
7. Nanoparticles.
8. Bloom strength.
9. Elementary osmotic pump.
10. Organoleptic additives.

\*\*\*\*\*