

(LJ 4267)

AUGUST 2016

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. Give an account of stability testing protocol for various pharmaceutical products. How drug products can be stabilized from the influence of oxidation?
2. Explain about Bio-availability testing.

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

1. Study of particle size and density of drugs in preformulation studies.
2. Soft gelatin capsule shell and content.
3. Coacervation phase separation.
4. Tablet excipients.
5. Formulation of film coating solutions.
6. Benefits and limitations of prolonged action Pharmaceuticals.
7. Osmotic drug delivery systems.
8. Biological factors influencing gastrointestinal absorption of drugs.

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

1. Significance of drug solubility.
2. Quality control tests on capsules.
3. Methods of microencapsulate liquids.
4. Sticking and picking in film coated tablets.
5. Difference between prolonged (sustained) release and controlled release drug delivery systems.
6. Properties of drugs suitable for transdermal drug delivery systems.
7. Raw materials required for liposomes.
8. Apparent volume of distribution.
9. Parameters affecting drug dissolution.
10. Dissolution testing apparatuses.

\*\*\*\*\*