

(LK 4267)

FEBRUARY 2017

Sub. Code: 4267

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

*Q.P. Code: 564267*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the study of physical properties and solubility analysis of drugs in pre-formulation studies.
2. Explain the types and construction of oral prolonged action pharmaceuticals.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Degradation of drugs in pharmaceutical dosage forms with examples.
2. Evaluation of capsules.
3. Multiorifice centrifugation.
4. Tablet compression machine.
5. Types of tablet coating.
6. Transdermal drug delivery systems.
7. Physicochemical factors affecting oral absorption of drugs.
8. Disintegration test on tablets.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Significance of crystallinity and polymorphism of drugs.
2. Buccal and sublingual tablets.
3. Applications of nanoparticles.
4. Superdisintegrants.
5. Dry granulation in tablet production.
6. Reasons for weight variation of tablets.
7. Hepatic first pass and bioavailability.
8. Characteristics of gelatin for capsule shell production.
9. Renal clearance.
10. Plasticizers.

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