

[KZ 4267]

Sub. Code : 4267

THIRD B.PHARM. EXAMINATION**Paper I - FORMULATIVE PHARMACY AND BIOPHARMACEUTICS****Q.P. Code : 564267****Time : Three hours****Maximum: 100 Marks****Answer ALL questions.****I. LONG ESSAYS****(2 x 20 = 40)**

1. a) Preparation, evaluation and applications of nanoparticles.
b) Physico chemical factors affecting the bio availability of drugs.
2. a) Discuss the protocols followed in the preformulation studies.
b) Explain the bioequivalence testing procedures.

II. SHORT NOTES**(8 x 5 = 40)**

1. Evaluation of microcapsules.
2. Osmotic drug delivery systems.
3. Protocol followed for the stability testing of pharmaceutical products.
4. Types of machinery employed for compression of tablets.
5. Compartmental models and its significance.
6. Film defects and its rectification.
7. Hard gelatin capsules.
8. Discuss the different types of prolonged action pharmaceuticals with suitable examples.

III. SHORT ANSWERS**(10 x 2 = 20)**

1. Polymorphism.
2. Biological half life.
3. Co- acervation and phase separation.
4. Slugging.
5. Mean kinetic temperature.
7. Base absorption.
8. Racemisation.
9. Chipping and lamination.
10. Grades of gelatin used for the preparation of capsules.
