

[BPHARM 0122]

JANUARY 2022
(AUGUST 2021 EXAM SESSION)**Sub. Code: 4267**

B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
FOURTH (FINAL) YEAR (Regulation 2009-2010)
PAPER I – FORMULATIVE PHARMACY AND BIO-PHARMACEUTICS
Q.P. Code: 564267

Time: Three hours**Answer ALL questions****Maximum: 100 Marks****I. Elaborate on:****(2 x 20 = 40)**

1. Discuss about Material and Manufacturing of Hard Gelatin Capsules and its evaluation.
2. Discuss the protocols followed for the studies of Bioavailability and Bioequivalence. What are factors considered for the studies of Bio availability?

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

1. Granulation methods.
2. Processing problems of tablets.
3. Evaluation of Hard gelatin capsules.
4. Noyes-Whitney equation and its significance.
5. Co-acervation phase separation of Microencapsulation.
6. Volume of Distribution and elimination half life.
7. Biological factors affecting drug absorption.
8. Measurement of Bioavailability.

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

1. Preformulation.
2. Compartmental models.
3. Base adsorption.
4. Microencapsulation methods.
5. Types of Hardness tests.
6. Film coating polymers.
7. Slugging Process.
8. Mechanism of drug absorption.
9. Benefits of Prolonged release dosage forms.
10. Renal clearance.
