

(LR 4267)

DECEMBER 2020
(AUGUST 2020 SESSION)

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 benefits and limitations of prolonged action pharmaceuticals. Discuss the different types, construction and evaluation of prolonged action pharmaceuticals.
2. Define Pharmacokinetics and discuss the compartment models. Write a note on the following.
(a) Biological half life. (b) Apparent Volume of Distribution
(c) Elimination rate constant (d) Renal clearance.

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

1. Mechanism of drug absorption.
2. Physicochemical properties of drug molecule.
3. Process of sugar coating.
4. Accelerated stability studies.
5. Evaluation of Transdermal delivery systems.
6. Procedure for bio-equivalency studies.
7. Film defects and rectification.
8. Evaluation of hard gelatin capsules.

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

1. Lubricant and glidant.
2. Base absorption.
3. Hazing/ dull film.
4. Double impression.
5. Bio-pharmaceutics.
6. Noyes Whitney equation.
7. Dielectric constant.
8. Slugging.
9. Different type of tablets.
10. Film tensile strength.
