

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

(LP 4267)

AUGUST 2019

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. Discuss the pharmaceutical and biological factors that affect absorption of drugs.
2. Explain about Bio-availability and Bio-equivalency studies.

II. Write notes on:

(8 x 5 = 40)

1. Physical factors of drug that affect stability of dosage form.
2. Accelerated stability studies.
3. Processing problems in tablet manufacturing.
4. Film coating of tablets.
5. Hard gelatin capsule.
6. Benefits and limitation of sustained release preparations.
7. Osmotic drug delivery system.
8. Preparation of microspheres.

III. Short answers on:

(10 x 2 = 20)

1. Dental cone.
2. Excipients for tablet manufacturing.
3. Dry granulation in tablet production.
4. Composition of soft gelatin capsules.
5. Bloom strength.
6. Benefits of nanoparticles.
7. Enteric coating.
8. Drug elimination.
9. Pharmacokinetic parameters.
10. Compartment models.
