

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

(LN 4267)

AUGUST 2018

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. Explain in detail the various physiochemical factors and their effect on formulation, stability and bioavailability of dosage form.
2. Discuss various components of Transdermal drug delivery system.

II. Write notes on:

(8 x 5 = 40)

1. Accelerated stability studies and stability study protocol.
2. Quality control tests for tablets.
3. Manufacturing of soft gelatin capsule.
4. Types of prolonged action dosage form.
5. Formulation of nanoparticles.
6. Microencapsulation techniques.
7. Method of preparation of liposomes.
8. Osmotic drug delivery system.

III. Short answers on:

(10 x 2 = 20)

1. Direct compression.
2. Enteric coating.
3. Sublingual tablets.
4. Disintegrants.
5. Matrix system.
6. C_{max} and T_{max} .
7. Plasma protein binding.
8. AUC.
9. Clearance.
10. Bioequivalence.
