

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

[B.PHARM 0323]

**MARCH 2023
(FEBRUARY 2023 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 the process of various granulation techniques in preparation of tablets.
2. Explain the process of filling of soft gelatin capsules.

II. Write notes on:

(8 x 5 = 40)

1. Influence of chemical properties on stability of drugs.
2. Evaluation of tablets.
3. Coacervation phase separation technique.
4. Tableting defects.
5. Nanoparticles.
6. Preformulation studies.
7. Drug metabolism.
8. Advantages and disadvantages of sustained release preparations.

III. Short answers on:

(10 x 2 = 20)

1. Enteric polymers.
2. Organoleptic properties.
3. Polymerization.
4. Bioavailability.
5. Dry granulation.
6. Clearance.
7. Direct compression.
8. Glidants.
9. Transdermal patches.
10. Storage of capsules.
