Master of Pharmacy (Pharmaceutics)
Second Semester Examination, June-2021
Molecular Pharmaceutics (Nano Technology & Targeted DDS)
[MPH201T]

Time: 3:00 Hrs   **Max Marks 75**

Note: (i) Attempt any five questions.
        (ii)All questions carry equal marks.

Q.1   Discuss concepts, events and biological process involved in drug targeting as per Targeted Drug Delivery Systems.

Q.2   Write in detail about types, preparation and evaluation of Nano particles & liposomes.

Q.3   Give a brief note on preparation and applications of niosomes.

Q.4   Elaborate aerosols.

Q.5   Give a note on liposomal gene delivery systems.

Q.6   Explain tumor targeting and brain specific delivery.

Q.7   Define containers. Give its types, preparation and evaluation.

Master of Pharmacy (Pharmaceutics)
Second Semester Examination, June-2021
Advanced Bio pharmaceutics & Pharmacokinetics [MPH202T]

Time: 3:00 Hrs   **Max Marks 75**

Note: Attempt any five questions. All questions carry equal marks.

Q.1   What do you mean by drug absorption? Explain the factors which
        affect drug absorption.

Q.2   Give a note on pharmacokinetics and pharmacodynamics of
        Biotechnology drugs.

Q.3   Write in detail about design and evaluation of bioequivalence studies.

Q.4   Discuss about Cytochrome p450- based drug interactions.

Q.5   Describe rate-limiting steps involved in drug absorption,

Q.6   Explain Noyes–Whitney equation and drug dissolution.

Q.7   Write in brief about Targeted Drug Delivery Systems and
        Biotechnological products.

Q.8   Give clinical significance of bioequivalence studies.

Master of Pharmacy (Pharmaceutics)
Second Semester Examination, June-2021
Computer Aided Drug Delivery System [MPH203T]

Time: 3:00 Hrs   **Max Marks 75**

Note: Attempt any five questions. All questions carry equal marks.

Q.1   Explain statistical modeling in pharmaceutical research and Development.

Q.2   Elaborate regulatory and industry views on QbD.

Q.3   Write a brief note on computational modeling of drug disposition.

Q.4   Give a note on computers in pharmaceutical formulation.

Q.5   Write in detail about computer simulations in pharmacokinetics and pharmacodynamics.

Q.6   Discuss computers in clinical development.

Q.7   What do you mean by artificial intelligence? Explain pharmaceutical automation.

Q.8   Describe concept of optimization, optimization parameters, factorial design, optimization technology & screening design.

Master of Pharmacy (Pharmaceutics)
Second Semester Examination, June-2021
Cosmetics and Cosmeceuticals [MPH204T]

Time: 3:00 Hrs   **Max Marks 75**

Note: **(i) Attempt any five questions.**
       (ii) All questions carry equal marks.

Q.1   What are the challenges in formulating herbal cosmetics?

Q.2   Give a note on herbal ingredients used in hair care, skin care and oral care.

Q.3   How will you classify Sunscreens? Write in detail about sun-protection and pigmentation.

Q.4   Classify perfumes. Explain perfume ingredients listed as allergens in EU regulations.

Q.5   Discuss common problems associated with oral cavity.

Q.6   Describe regulatory provisions related to import of cosmetics.

Q.7   Define Surfactants. Give its classification and applications.

Q.8   Which factors affect microbial preservative efficacy? Explain all of them.