

PHYSICAL PHARMACEUTICS-II

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UNIT - I

- ① Illustrate the optical & kinetic properties of Colloidal dispersion.
- ② Define & Classify Colloids.

UNIT - II

- ① Explain different categories of Non-newtonian fluids on the basis of rheogram, molecular mechanism, mathematical equation & suitable example.
- ② Explain different types of deformation of solids, elastic modulus & Heckel's equation in detail.
- ③ Explain various methods for determining viscosity of Non-newtonian fluid system in detail.
- ④ Describe Plastic & elastic deformation in detail.
- ⑤ Describe stress & strain in detail.
- ⑥ Write a note on Thixotropy.

UNIT-III

- ① Discuss various signs of instability in an emulsion & method for its preservation.
- ② Differentiate b/w Flocculated & Deflocculated Suspensions & methods for formulating any suspension
- ③ Elaborate ~~that~~ rheological properties of emulsion & emulsion formulation by HLB method.
- ④ Define Surfactant, give the example of cationic, anionic & Non-ionic surfactants.
- ⑤ Describe theory of Emulsion

UNIT-IV

- ① Define Particle Size & various methods used in particle size determination
- ② Explain the desirous properties of Powders.
- ③ Explain in detail the properties of powders - flow properties & factors affecting flow properties
- ④ Write down methods for determining surface area

UNIT-V

- ① Compute the accelerated stability testing for determination of expiration dating of pharmaceutical dosage form.
- ② Define zero, first & second order reactions also determine the half life & shelf life for them.
- ③ What is Pharmaceutical degradation & factors influencing degradation of pharmaceutical products.
- ④ Write down stabilization of medicinal agent