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[LF 4256] AUGUST 2014 Sub. Code: 4256

SECOND YEAR B.PHARM. DEGREE EXAMINATION

Paper I – PHYSICAL PHARMACEUTICS

Q. P. Code: 564256

Time: Three Hours Maximum: 100 Marks

Answer All Questions

I. Essay Questions: $(2 \times 20 = 40)$

a) What is Kinetics? Define order of reaction.

Distinguish between the first order and zero order reaction.

Explain the methods to determine the order of reaction.

- b) Methods to determine specific surface area of powders.
- a) What is an emulgent. Classify emulgents with suitable example. Explain the mechanism of action of emulgent.
 - b) Write about the Fick's laws of diffusion.

II. Short Notes: (8 x 5 = 40)

- Isotonic solutions and tonicity adjustment.
- Inorganic complexes in pharmacy.
- 3. Electric properties of interface.
- 4. Thioxtrophy.
- Purification of colloids.
- 6. Stability of suspensions with sedimentation paramete
- 7. Explain Do-nouy ring metho
- Significance of protein binding.

III. Short Answers: $(10 \times 2 = 20)$

- Spreading coefficient.
- Carrier mediated transport.
- 3. CMC.
- 4. Bancraft rule.
- 5. Creaming and cracking.
- Porosity.
- Edmunson equation.
- 8. HLB.
- Types of viscomete
- Non-newtonian system.

