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[BPHARM 0122]

JANUARY 2022 (AUGUST 2021 EXAM SESSION) Sub. Code: 4256

B,PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS) SECOND YEAR (Regulation 2009-2010) PAPER I – PHYSICAL PHARMACEUTICS

Q.P. Code: 564256

Time: Three hours Answer ALL questions Maximum: 100 Marks

I. Elaborate on: $(2 \times 20 = 40)$

 Define Thixotropy. Mention the types of Thixotropy. Explain the measurement and applications of Thixotropy.

- a) Describe the different methods of analysis of Complexes with examples.
 - b) Discuss the experimental methods for determining protein binding of drugs.

II. Write notes on: $(8 \times 5 = 40)$

- How do you determine Particle size by coulter-counter method?
- Discuss about electrical properties of Colloids.
- Explain rate and order of reaction with examples:
- Give notes on spreading co-efficients.
- Write short notes on steady state diffusion.
- Give notes on isotonic solution and methods of adjusting tonicity.
- Write about the pharmaceutical applications of Colloids.
- 8. Describe stability problem in emulsion?

III. Short answers on:

 $(10 \times 2 = 20)$

- Creaming.
- Define Porosity.
- Write the Noyes Whitney equation with its uses.
- 4. Define the term diffusion.
- What you mean by half-life.
- Define Zeta potential.
- Define Glidants with suitable examples.
- 8. Define buffer capacity.
- 9. Write the Edmundson equation with its uses.
- 10. List out the methods for determination of surface/interfacial tension.

