

Second Year B.Pharm Degree Supplementary Examinations July 2017

**PHARMACEUTICS – II  
(2010 SCHEME)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. What is adsorption isotherm. Deduce Langmuir adsorption isotherm. Mention its limitations.
2. Explain in detail the drop weight method for the determination of interfacial tension
3. Describe the Ostwalds viscometer for the determination viscosity

**Short notes**

**(14x5=70)**

4. Simple diffusion technique using Ficks first law diffusion
5. Explain Fick's laws of diffusion
6. What is protein binding. Explain the kinetics of protein binding
7. Applications of inclusion compounds
8. Micromeritics and applications of the same
9. Average particle size distribution with the help of tabular column
10. Effect of temperature on the reaction rate
11. Problems associated with stability
12. Non Newtonian systems and its types
13. Mechanism of shear thickening systems
14. Electrical properties pertaining to the surface of the dispersed particles
15. Flocculated and deflocculated suspension
16. Instabilities of emulsion and methods to overcome the same
17. Accelerated stability studies

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