

Second Year B.Pharm Degree Examinations - July 2016

**PHARMACEUTICS II**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. What are the methods by which drugs can be degraded. How the drugs are stabilized against such degradation.
2. Discuss the instability problems of emulsion and suggest the methods to overcome the same add a note on evaluation of emulsions.
3. Define colloids. Explain the kinetic, optical and electric properties of colloids.

**Short notes**

**(14x5=70)**

4. Explain coulter counter method used to determine particle size.
5. Derive an equation for the determination of surface tension of a liquid by capillary rise method.
6. Define particle surface area and how do you determine the same.
7. What is plug flow and how do you overcome it.
8. Spreading co-efficient and surface free energy.
9. Define angle of repose and mention its significance.
10. Differentiate between a single point and multi-point viscometer with examples.
11. Explain frequency distribution curve for particle size.
12. Sedimentation volume and degree of flocculation
13. What do you mean by yield value and what are the causes for yield value.
14. Inclusion complexes
15. Classify colloids with examples.
16. Thixotropy and its application in pharmacy.
17. Fick's first law of diffusion

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