

QP CODE:203006

Reg.No:

Second Year B.Pharm Degree Examinations - October 2012

PHARMACEUTICS - II
(Physical Pharmacy)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What are the factors by which drugs can degrade. How the drugs are stabilized against such degradation.
2. What is an adsorption isotherm. Explain Langmuir adsorption isotherm. Mention its limitations.
3. Discuss the instability problems of emulsion and suggest the methods to overcome the same. Add a note on phase volume ratio.

Short notes

(14x5=70)

4. Explain coulter counter method used to determine particle size.
5. What is protein binding. Explain the kinetics of protein binding.
6. Define particle surface area. How do you determine the same.
7. Differentiate between lyophilic, lyophobic and association colloids.
8. Write a note on spreading coefficient and surface free energy.
9. Define bulkiness and mention its significance.
10. Differentiate between a single point and multi point viscometer with examples.
11. Explain the working of dissolution test apparatus
12. Explain frequency distribution curve for particle size.
13. What do you mean by yield value and what are the causes for yield value.
14. Explain cup and bob viscometer.
15. Define HLB value and mention the methods for its estimation.
16. Define thixotropy and mention its application in pharmacy.
17. Explain Fick's law of diffusion with appropriate equation
