

rgpvonline.com

PY-202

B. Pharm. (Second Semester)

EXAMINATION, June, 2012

(Grading/Non-Grading)

PHARMACEUTICS – II

(Physical Pharmacy)

(PY – 202)

Time : Three Hours

Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks. It is required to solve subpart of a question in continuation.

1. (a) Give account of various methods for determination of particle size. Discuss pharmaceutical applications of particle size analysis.
- (b) How do fundamental properties of particles affect the derived properties of powder ?
2. (a) Discuss the factors affecting solubility of gases in liquids.
- (b) Using proper illustration discuss phase diagram.
3. (a) Discuss the significance of dissolution and dissolution rate studies for pharmaceutical systems.
- (b) Write a brief note on HLB scale.

4. Classify complexes with suitable example. Give applications of complexes in pharmacy.
5. Describe the following in detail :
 - (a) Du Noüy Tensiometer
 - (b) Capillary viscometer
6. What are Colloids ? Describe optical properties of colloids. What are protective colloids ?
7. Discuss the concept of structured vehicle in formulation of stable suspension. How will you evaluate suspension ?
8. Write short notes on any *two* of the following :
 - (a) Buffered isotonic solutions
 - (b) Thixotropy
 - (c) Buffers in pharmaceutical systems

rgpvonline.com