Roll No

PY-202

B.Pharmacy II Semester

Examination, December 2015

Pharmaceutics-II

(Physical Pharmacy)

·Time: Three Hours

Maximum Marks: 70

DTO

- *Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each questions are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.
- 1. a) What is Phase Rule?
 - b) What are ideal solutions?
 - c) What is common ion effect?
 - d) What are the factors affecting solubility of gases in liquids? Discuss in detail.

OR

Describe the methods for determining surface tension.

- 2. a) What is buffer capacity?
 - b) Define HLB.

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- c) Enumerate derived properties of powder.
- d) Discuss various methods for determination of surface area of particles. www.rgpvonline.E&r202

OR

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Describe Hixson-Crowell cube root law in detail.

- 3. a) Define CMC.
 - b) Define Solubility.
 - c) Enumerate pharmaceutical applications of colloids.
 - d) Explain electrokinetic properties of colloids.

OR

Write a note on DLVO Theory.

- 4. a) State Newton's law of flow.
 - b) What is protein binding?
 - c) Write Henderson-Hasselbalch equation for a weak acid.
 - d) Give detail account on classification of complexes.

OR

Discuss about pharmaceutical application of complexes.

- 5. a) Define Suspension.
 - b) What are sedimentation parameters?
 - c) Write a notes on non-newtonian system.
 - d) Differentiate between flocculated and deflocculated system.

OR

Discuss theories of emulsification in detail.
