

**QP CODE:203006**

**Reg.No: .....**

Second Year B.Pharm Degree Supplementary Examinations - April 2014

**PHARMACEUTICS - II  
(Physical Pharmacy)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. How will you predict the stability of a pharmaceutical product.
2. Discuss the non Newtonian systems.
3. Explain any two methods for determining the surface area of a powder.

**Short notes**

**(14x5=70)**

4. Fick's law.
5. Type – I dissolution test apparatus.
6. Emulsifying agents.
7. Electrical properties of colloids
8. Flocculation verses Deflocculation.
9. Enhancement of solubility.
10. Carr's index.
11. Porosity.
12. Sieving.
13. Cone and plate viscometer.
14. Globule size analysis in emulsion.
15. Steady state diffusion.
16. Emulsions and suspensions – Comparison.
17. Zero order and first order reaction.

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