

(LE 4256)

FEBRUARY 2014

Sub. Code: 4256

**SECOND YEAR B.PHARM. EXAM**  
**PAPER I – PHYSICAL PHARMAEUTICS**  
*Q.P. Code: 564256*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:** (2X20=40)

1. a) Define suspensions. Explain setting properties of suspensions.  
b) Explain different types colloids.
2. a) Define thixotropy. Types of thixotropy. Measurement and application of thixotropy.  
b) Write about the flow properties of powde

**II. Write notes on:** (8X5=40)

1. Explain the electric double layer of interface.
2. Write about the applications of surfactant.
3. Short notes on Inclusion complexes.
4. Write the methods to determine the order of reaction.
5. Explain coulter counter apparatus.
6. Isotonic solutions.
7. Fick's laws of diffusion.
8. Theories of emulsion.

**III. Short Answers on:** (10X2=20)

1. CMC.
2. Chelates.
3. Ferrocene.
4. Rheopexy.
5. Noyes-Whitney equation.
6. Surface and interfacial tension.
7. Edmunson equation.
8. HLB.
9. AST.
10. Flocculation and coalescence.

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