[LB 4256] **AUGUST 2012** **Sub. Code: 4256**

SECOND YEAR B.PHARM. EXAM

Paper I – PHYSICAL PHARMACEUTICS

Q.P. Code: 564256

Time: Three hours **Maximum: 100 Marks**

(180 Min) Answer ALL questions in the same orde

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. a. Define interfacial tension? Discuss the classification & application of surfactant? b. Explain about types of colloids.	19	33	20
2. a. What is menat by Rheology? Give an account of shear thickening system? b. Write briefly about various methods of determining particle size.	19	33	20

II. Write notes on:			
1. Noyes Whitney equation.	3	8	5
2. Spreading coefficient.	3	8	5
3. Cup and Bop viscomete	3	8	5
4. Diffusion layer model theory.	3	8	5
5. Controlled flocculation.	3	8	5
6. How do you predict shelf life.	3	8	5
7. Define micro meritics. Discuss the applications.	3	8	5
8. Inclusion complexes.	3	8	5

III. Short Answers:			
1. Define Emulsion.	1	5	2
2. Yield value.	1	5	2
3. Dielectric constant.	1	5	2
4. Zero order reactions.	1	5	2
5. Stability of emulsion.	1	5	2
6. Polymorphism.	1	5	2
7. Kraft.	1	5	2
8. Kinematic viscosity.	1	5	2
9. Specific gravity.	1	5	2
10. Porosity.	1	5	2

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