QP CODE: 203008	Reg. No:
Second B.Pharm (Ayurveda) Degree Supplementary Examinations April 2018 Physical Pharmacy	
Time: 3 Hours	Total Marks: 100
Answer all questions.  Essays:	(2x10=20)
<ol> <li>Define colloids. Explain their kinetic properties</li> <li>Explain methods to determine surface area of properties</li> </ol>	powder particles
Answer briefly:	(10x5=50)
<ol> <li>Explain factors affecting solubility of gases in life.</li> <li>Any one method to determine surface tension.</li> <li>Theory of emulsification.</li> <li>Explain Non Newtonian type of flow in liquids.</li> <li>Explain Fick's law of diffusion.</li> <li>Physical stability problems in emulsion.</li> <li>Coulter counter method.</li> <li>Pharmaceutical application of microencapsulat.</li> <li>Factors affecting dissolution.</li> <li>Optical properties of colloids.</li> </ol> Short notes:	
13. Pharmaceutical application of surfactants 14. Factors affecting rate of reactions 15. Thixotropy 16. Equations for rate constant and half-life of first 17. Discuss various graphs to express particle size 18. Micellar solubilization 19. Wetting agents 20. Lyophilic colloids 21. Distribution law	order reaction

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22. List out the polymers used as thickening agents in pharmaceutical industry