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**B. Pharmacy (Fourth Semester) Examination,  
April-May 2016**

CSVТУonline.com

(New Scheme)

(Pharmacy Branch)

**PHARMACEUTICS-V**

(Physical Pharmacy-II)

*Time Allowed : Three hours*

*Maximum Marks : 70*

*Note : Attempt any five questions.*

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1. What is meant by average particle size? Discuss the principle and method of particle size measurement using Andreason apparatus. 2+12=14

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2. Define colloidal dispersion. Explain the properties of colloids. What is wetting of particles? 2+10+2=14
3. Define the term-half-life. What is its importance in pharmacy? Discuss the effect of temperature and solvent on the stability of pharmaceutical formulations. 2+2+10=14
4. How the term solubility is expressed? Describe the method of determination of solubility of solids in liquid. What is phase rule. 4+6+4=14
5. What is complex? Classify the complex and mention their application in pharmacy. 2+12=14
6. Write short notes on : **CSVТУonline.com** 7+7=14  
(a) Flocculation and structured vehicle  
(b) Phase diagram
7. Write short notes on : 5+5+4=14  
(a) Surface area  
(b) Phase rule  
(c) Porosity