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**B. Pharmacy (Fourth Semester) Examination,
April-May 2018**

(New Scheme)

(Pharmacy Branch)

PHARMACEUTICS-V

(Physical Pharmacy-II)

Time Allowed : Three hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Write a detailed account on methods of determining particle size by sedimentation method. 7

341416(41)

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- (b) Write a brief account on derived properties of powders. 7
2. (a) What do you mean by colloidal dispersions? Write a detailed account on interfacial properties of suspended particles and rheological consideration in suspension. 7
(b) Define emulsion. Write a detailed note on theories of emulsification with suitable diagram and examples wherever required. <http://www.csvtuonline.com> 7
3. Discuss in detail about accelerated stability studies and determination of expiry date. 14
4. Discuss solubility expression in detail. Write a detailed note on different methods to determine solubility. Discuss solubility of solids in liquids in detail. 5+5+4=14
5. What is Complexation? Write its classification, and describe clathrates and application of colloids in pharmacy. 2+3+5+4
6. Write short notes on any two : 7×2=14
 - (a) Phase rule and phase diagram
 - (b) Flow properties
 - (c) Protective colloids and application of colloids in pharmacy

341416(41)

[3]

Write detailed account on :

- (a) Influence of light and solvent on stability of drug 3.5+3.5
(b) Inclusion Complex 7

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