

17th May 13

Pharmaceutics - III (Sem - III) A.T.K.T

17/5/13

64 : 1st half. 13-shilpa(e)

Con. 3613-13.

Sem III (Rev.) A.T.K.T. - Pharmaceutics - III
DC-2213

(2 Hours)

[Total Marks : 40

- N.B. : (1) Question No. 1 is **compulsory**.
 (2) Attempt any **three** of the remaining **four** questions.
 (3) **Figures** to the **right** indicate **full** marks.

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| 1. (a) State what is meant by :- (any four) | 4 |
| (i) Flocculated suspension | |
| (ii) Schulze - Hardy rule | |
| (iii) Liquid Crystalline phase | |
| (iv) Hydroxyl Value | |
| (v) Cloud point. | |
| (b) Elaborate on Particle-Particle Interactions with respect to suspension. | 4 |
| (c) What are suppositories and Pessaries ? State the ideal properties of a suppository base. | 2 |
| 2. (a) Give an account of raw materials used to formulate Emulsions. | 5 |
| (b) Elaborate on bases used in semi solid formulations. | 5 |
| 3. Answer the following :- | 10 |
| (a) Explain the role of electrolytes in suspensions. | |
| (b) Classify gelling agents with examples. | |
| (c) State Identification tests for Emulsions. | |
| (d) Supernatant Liquid is clear in a flocculated suspension, whereas it is turbid in a deflocculated suspension. Comment. | |
| (e) Describe low energy Emulsification. | |
| 4. (a) Write short notes on :- (any two) | 6 |
| (i) Silveson Homogeniser | |
| (ii) In vitro permeation evaluation | |
| (iii) Preservation of Emulsions. | |
| (b) Give an account of Large Scale manufacture of creams. | 4 |
| 5. (a) Discuss Quality Control tests for suppositories. | 5 |
| (b) Give the pharmaceutical Applications of suspensions. | 5 |
