

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 5055

Roll No.

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B. Pharm.

(SEM. IV) EXAMINATION, 2006-07

PHARMACEUTICS - V

(PHYSICAL PHARMACY)

Time : 3 Hours]

[Total Marks : 80

*Note : (1) Attempt all questions.
(2) All questions carry equal marks.*

1 Attempt any **four** of the following (short notes) : **4×4**

- (a) Eutectic mixtures
- (b) Glassy state
- (c) Half life of a drug
- (d) Accelerated stability testing
- (e) Buffer capacity.

2 What is the importance of (any **four**) **4×4**

- (a) True Density
- (b) Bulk Density
- (c) Flow behaviour of powders
- (d) Optical microscopy
- (e) Number and weight distribution.

3 Explain the importance of any **four** of the following in pharmaceutical practice : **4×4**

- (a) Surface tension
- (b) Wetting and spreading
- (c) HLB scale
- (d) Solid-liquid interfaces
- (e) Electrical properties at the interface.

4 Attempt any **four** of the following : **4×4**

- (a) Distinguish between viscosity and rheology
- (b) Explain dilatant flow with examples.
- (c) Classify complexes and give their brief description
- (d) Describe the working of rotational viscometer
- (e) What is kinematic viscosity?

5 Answer any **four** of the following:

- (a) How do colloids differ from crystalloids.
- (b) Explain the mechanism of functioning of protective colloids.
- (c) What are the applications of interfacial properties of colloids
- (d) Define controlled flocculation
- (e) How do emulsions differ from suspensions ?

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