

[Total No. of Questions - 5] [Total No. of Printed Pages - 2]
(2064)

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B. Pharmacy 4th Semester Examination

Physical Pharmacy-II (N.S.)

BP-243

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any two questions from Section A and any eight questions from Section B. Section C is compulsory.

SECTION - A

1. Enlist fundamental & derived properties of particles. How particle size data is analysed? Give pharmaceutical applications of particle size analysis. (10)
2. Classify colloids. Discuss lyophobic colloids in detail. (10)
3. Discuss metal & organic molecular complexes in detail. (10)

SECTION - B

4. (a) Discuss the term detergency.
(b) Define & differentiate various densities.
(c) Enlist different methods of size analysis, discussing any one of them.
(d) Discuss pseudoplastic flow in detail.
(e) Discuss inclusion complexes.
(f) Give applications of protein binding.

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- (g) Compare colloidal & molecular dispersions.
- (h) How colloids are purified?
- (i) Discuss symptoms of physical instability of emulsions.
- (j) Discuss the term phase inversion. (8×5=40)

SECTION - C

5. (a) Define wetting & give its applications.
- (b) Define specific surface & give its applications.
- (c) Discuss role of thixotropy in formulation.
- (d) Give classification of complexes.
- (e) Define & discuss structured vehicle. (5×2=10)