[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2064)

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B. Pharmacy 2nd Semester Examination Pharmaceutics-I (Physical Pharmacy) (O.S.) HBP-102

Time: 3 Hours Max. Marks: 80

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

Note: Attempt any five questions in all selecting one question from Section A, B, C & D. Section E is compulsory.

SECTION - A

- Discuss various types of particle diameters & give methods for their determination. Explain any two methods for determination of number distribution of particles. (16)
- 2. Describe the gaseous state of matter in detail giving its pharmaceutical applications. (16)

SECTION - B

- 3. Define surface & interfacial tensions. Discuss different methods for their determination. (16)
- 4. Define viscosity. Discuss various methods for its determination. (16)

SECTION - C

- Give different methods for preparation of lyophobic colloids.
 Discuss optical properties of colloids. (16)
- 6. Classify organic molecular complexes & discuss nature of interaction with suitable examples. Give pharmaceutical applications of complexation. (16)

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SECTION - D

- 7. Discuss various methods used to establish order of reaction. Give the factors governing rate of a reaction. (16)
- 8. Discuss in detail the buffered isotonic solutions. How toxicity is measured & adjusted? (16)

SECTION - E

- 9. (a) Define porosity & give its applications.
 - (b) What is HLB? Give one method for its determination.
 - (c) Give applications of thixotropy.
 - (d) Classify association colloids giving examples.
 - (e) Differentiate chelates & inorganic metal complexes.
 - (f) Give applications of chemical kinetics.
 - (g) Discuss polymorphism.
 - (h) What are structured vehicles? (2×8=16)