

[Total No. of Questions - 7] [Total No. of Printed Pages - 2]
(2063)

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B. Pharmacy (Ayurveda) 4th Semester Examination

Pharmaceutics Physical Pharmacy

III

Time : 3 Hours

Max. Marks : 90

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 : All questions carry equal marks. Attempt any six questions:

1. Phase equilibria in these component system. **(15)**
2. (a) Narrate isothermal and adiabatic process in thermodynamics. **(10)**
(b) Purification method of 'Colloids'. **(5)**
3. (a) Explain non-newtonian type of flow with rheograms. Mechanisms of suitable examples. **(10)**
(b) Methods of viscosity determination. **(5)**
4. (a) Explain the Raoult's law and its limitations. **(10)**
(b) Explain the various types of emulsifying agents. **(5)**
5. (a) Define Retroactive index and explain the method of determination. **(10)**
(b) Write short note on thermochemistry. **(5)**

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6. (a) Describe the methods of determination of surface tension. **(10)**
- (b) Explain the characteristics of dispersion phase. **(5)**
7. Answer briefly any five of the following:
- (a) Pseudo plastic flow.
- (b) Brownian motion.
- (c) What is meant by 'HLB'? Describe one method to determine the same.
- (d) Spreading coefficient.
- (e) Define CMC & Krafft point.
- (f) Entropy. **(15)**