

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2124)

1690

B. Pharmacy 3rd Semester Examination

Physical Pharmacy-I (NS)

BP-233

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 question from Section A and eight questions from Section B. All questions in Section C are compulsory.

SECTION - A

1. What is thermodynamics? Discuss first law of thermodynamics in detail.
2. What are solutions? Discuss ideal & real solutions in detail.
3. What are accelerated stability studies? How are they conducted? (10×2=20)

SECTION - B

4. What is polymorphism? Give its applications.
5. Describe eutectic mixtures.
6. Give Clausius-clapeyron equation.
7. Write applications of thermo chemistry.
8. How pharmaceutical buffers are prepared?
9. How half life is determined?

[P.T.O.]

10. Give influence of temperature on rate of reaction.
11. Discuss gaseous state of matter.
12. Differentiate between zero & first order reactions.
13. How conductance is measured?

(5×8=40)

SECTION - C

14. Discuss relative humidity.
15. Give Gibbs-Helmholtz equation.
16. Discuss molarity & molality.
17. Give applications of chemical kinetics.
18. What is heat of formation?

(2×5=10)