[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)