

Kalol Institute of Pharmacy, Kalol
Mid semester Exam
Second semester B.Pharm 2009
Physical Pharmacy

Date:- 04/04/2009

Total Marks:- 20

Q.1 Explain any three of following **9 marks**

- a) Formulation of suspension
- b) Theory of emulsification
- c) Physical stability of emulsion
- d) Liquid crystalline state
- e) Explain phase diagram

Q.2 Write down any three of following **6 marks**

- a) Difference between flocculated and deflocculated suspension
- b) Rheology of suspension
- c) Types of emulsion
- d) Write note on polymorphism
- e) Determination of types of emulsion

Q.3 Define any two of following **2 marks**

- a) Vapour pressure
- b) Sublimation
- c) Critical temperature

Q. 4 solve any one of following **3 marks**

- a) Calculate amt. of sodium chloride to make 100 ml of 2% solution of cocaine HCL isotonic with blood

Molecular weight of cocaine HCL is 339.5 and yielding 2 ions
Molecular weight of sodium chloride is 58.5 and yielding 2 ions

- b) Find out amount of Sodium chloride require to make 100 ml of 3% W/V solution of sulphacetamide solution isotonic with blood

Freezing point of 1% w/v of sulphacetamide is -0.132°C
Freezing point of 1% w/v of sodium chloride is -0.58°C

-----*Best of Luck*-----