

SHATHAVAHANA UNIVERSITY

BSC III YEAR (CBCS) -CHEMISTRY – VI (SEM-V)

Practical Examinations

PHYSICAL CHEMISTRY -I

TIME: 2Hrs

Max.Marks:25

Question Bank

I.

- a. Determine the Distribution co-efficient of Iodine between water and Carbon tetrachloride

(Or)

Determine the molecular status and partition co-efficient of Benzoic acid between Toluene and Water

- b. Determine the Distribution co-efficient of Acetic acid Between n-Butanol and water

II.

- a. Determine the Cell constant of conductivity cell.
b. Determine the Dissociation constant(K_a) of Acetic acid by conductivity Measurements

- III. Verify the Beer's Law by using Potassium permanganate solution and determine the concentration of unknown solution of $Kmno_4$ Colorimetrically

- IV. Verify the Freundlich Adsorption isothermal by using acetic acid and animal charcoal and determine the adsorption constant.

Scheme of valuation

- I. Experiment =20
a) Principle =5
b) Calculation =4
c) Units, Tabulation & Graph =10
d) Result =01
- II. Viva =02
- III. Record =03

TOTAL=25 MARKS
