Seat No._____

Dharmaj Degree Pharmacy College, Dharmaj

GTU mid Semester Internal (Theory) Examination

First Year B. Pharm (Semester II)

Date: 02/04/09 **Time:** 11 AM to 12 NOON.

Subject: Physical Chemistry **Max Marks: 20**

Note: Draw neat and clean diagram where necessary

Que.1 Define Rault's law and derived the equation for Rault's law. **(03)**

Que.2 Define Partition coefficient and explain the Partition coefficient of solute undergo Association and Dissociation. **(03)**

Que.3 Write down the applications of Radioisotps in pharmacy. **(2.5)**

OR

What is the Molality of solution prepared by dissolving 5g of toluene in 225ml of benzene.

Que.4 Explain Langmuir adsorption isotherm in detail. **(2.5)**

OR

In experiment with Oswald viscometer pure water took 1.63minutes to Flow through the capillary at 20ºC.For same volume of another liquid of density 0.80g/cm^3.The flow time was 2.65minutes.Find relative viscosity of liquid & its absolute viscosity in centipoises.Density of water at 20ºC is 0.9982 & absolute viscosity of water 1.005 centipoise.

Que.5 Define Surface tension.Enlist various methods for measurement of it & Explain in detail Ring Detachment method. **(03)**

Que.6 Draw a well labeled diagram of Polarimeter & give brief account on London forces. **(03)**

Que.7 Distinguish following terms: (any two) **(03)**

a) Specific refraction & Molar refraction.
b) Specific conductance & Equivalent conductance.
c) Dextro rotatory compound & Levo rotatory compound.

……..Best of Luck……

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