Seat No._____

Dharmaj Degree Pharmacy College, Dharmaj

GTU mid Semester Internal (Theory) Examination

First Year B. Pharm (Semester II)

Date: 01/04/09 **Time:** 11 AM to 12 NOON.

Subject: Physical Pharmacy **Max Marks**: 20

NOTE: Draw neat and clean diagram where necessary.

Que.1 Attempt any four. **(10)**

a) Differentiate flocculated suspension and deflocculated suspension.

b) Particle size, surface free energy consideration in suspension.

c) Controlled flocculated suspension.

d) Enlist the theory of emulsification and describe any one.

e) Physical stability problem of emulsions

Que.2 Discuss the electric double layer **(03)**

Que.3 Answer any two. **(06)**

a) Ring detachment method for measurement of surface tension

b) Spreading coefficient

c) Freundlich adsorption isotherm

Que.4 Calculate the following **(01)**

A 2 % w/v solution of wetting agent has density of 1.008 gm/cm^3.

The solution rise 33 mm in a capillary tube having an inside diameter of 4 mm. Calculate the surface Tension. Calculate the surface tension of the solution.

_____ Good Luck_____

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