Physical Chemistry Past papar 2021 What is thirotopy phenomenon. Thirotropy is a phenomenon where the viscosity of some fluids depend on the time of share rate. It is time dependent Certain gels or fluids that are viscous under static condition will flow over time when shaken on shear stressed. PH. temperature or polymer concentration may are the factor of Thioxlopy. What do you meant by CMC? CMC stand for contral conicelle concentration The concentration of surfactants in solution above which micelles The concentration above which micelle formation occurs.

Temperature and electrolytes addition may affect the CMC.

It is essential for absorption of fatisoluble vilamins.

How tyndall effect observed What is emulsification.

The scattering of light as light beam

passes Through colloid.

It is observed when light enters a clark room where the dust particles get scattered. It can be seen through the fog when torch is switched on.

The mixture of two or more liquids
that are usually immiscible but under
specific transforming processes will adopt
a microscopic homogeneous aspect and
microscopic heterogeneous one.

Define Zeta potential?

It is physical property which is exhibited by any particles in suspension macromolecular material surface.



Example: Lipases: It helps in gut to digest fats. Amylase: In the salive. It help to change starches into sugar. Chemical adsorption Physical adsorption The force operating in this case The force operating are chemical are weak vander wall's force, bonds (strong). The heat of adsorption is law The heat of adsorption are about 20-40 kimol: high about 40-400 kimol. The process is reversible. The process is irreversible. Monolayer or multilayer. Monolayer only. It known as physisorption. It known as chemisorption PUACActivated. Non-activated

The potential difference between fixed charge layer and diffused layer and diffused layer having opposite charge. Its unit is volts (V) or millivolts (mV)-Difference between electrosomsis and electrophorsis · Electrophoresis is technique Electrosmosis is phenomenon that is used to describe in which fluid moves the motion of particles through porous medium or charge in fluid within a relatively enforce under influence of uniform electric field applied electric field. The movement of charged The movement of liquid particles can be fast is generally slow. Solids and liquid both Doly liquid are separated.

are separated. PUACP Define enzyme catalysis with ex? The increase in the rate of a process by biological molecule an enzine.

Past Paper 2021 Two postulates of Langmuis Adsoxption I Each adsorbent has specific equivalent Rate of adsorption is relatively high as compared to rate of description at initial stages iii) One molecule of adsorbate can adsorb on one site of adjubed Effect of Surface area on Burface area of the adsorbent has pronounced effect on he rate of adsorption-Adsorbent with greater surface to Volume ratio possess greater extent of advoxption and vice vera- of substance is dévided & Subdivided we get small Particles-

(11) Tomogeneous Catalysis - ? To Homogeneous catalysis exectants and Catalysis both are in the same Examples are as a follows. · Auto Catalysis 6 Acid or base Enzyme Catalysis Catalysis > Autocatalysis: act as a catalyst is auto catalysis.

The chemical reaction between acid potassium permagnate (KhnO4) 4 Oralic Irrample of auto Catalyst -> Hydrogenation Reaction: he addition of Hydrogen (H) to Unsaturated organic compounds like alkenes of Homogeneous Catalyst eg wilkinson's Catalyst. O catalyst dissolved in same Phas as seactants proceeding Hydrogenation.

(12) Imes as Catalyst are Specific Enzymes are bio organic catalyst which catalyze the chemical reaction of reputing (Redox, acid decomposition Steres specificity is basic character of enzymes work on optimum PH enzyme work on optimum PH temperature

Enzyme Inhibition: enhibitionpathways, dugact Ix xeversible PUACP Sols Colloids sol is a type s are minture where one substance the dispersed phase the dispersion medium



