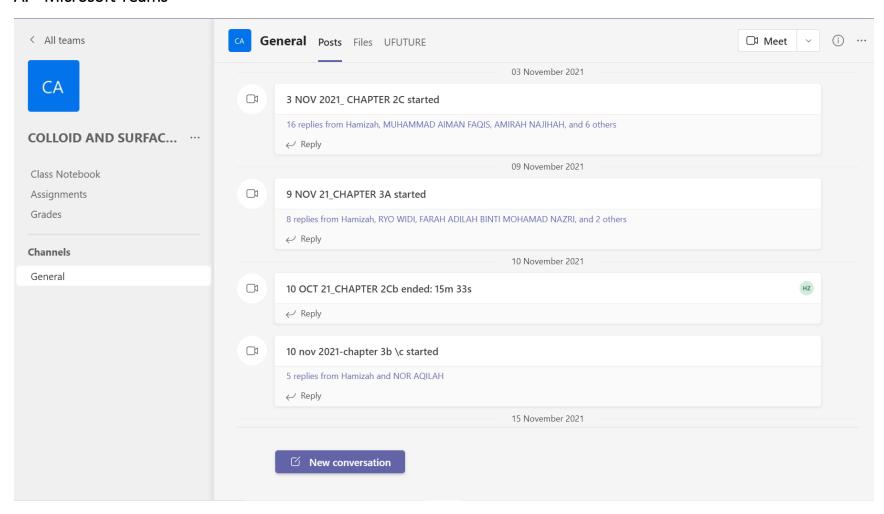
Learning Documentation

Colloid and Surface Chemistry Course

A. Microsoft Teams



CMT630_TEST 1_29 NOVEMBER 2021

Please answer all the questions



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Hi, SELVIA. When you submit this form, the owner will see your name and email address.

* Required

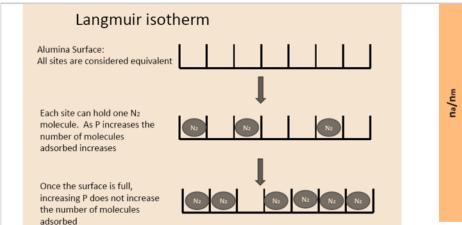
Explain, why Lyophobic colloid needs special method of preparation *
(2 Points)

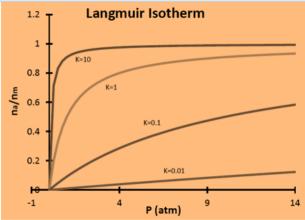
Enter your answer

2. Explain why lyophobic sol is less stable compare to lyophilic sol (you should relate with colloid charge property and solvation) * (4 Points)

Enter vour answer

B. Hand-out/Power Point





- For the Langmuir isotherm the alumina surface can be treated as being made of a bunch of identical slots, each of which can hold one nitrogen molecule.
- AT LOW PRESSURES the nitrogen molecules begin to fill the slots.
- As the pressure increases, more nitrogen gets adsorbed as can be seen in the near linear low pressure part of the N_a/N_m vs P curve.
- As the pressure continues to increase, the slots fill up and eventually the surface is covered.
- At this point increasing the pressure does not increase the amount of nitrogen adsorbed.
- This occurs graphically on the at part of the N_a/N_m vs P curve, where increasing the pressure does not change the amount of nitrogen adsorbed.
- From this figure we can also see that as the binding equilibrium constant increases (as binding becomes more favorable), the pressure where saturation occurs decreases.

Figure shows a graph of n_{s}/n_{m} as a function of pressure in atmospheres for several different values of K. the binding equilibrium constant.

C. Whatsapp Group

