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Q-1 - 12659904

If  $x$  is the amount of adsorbate and  $m$  is the amount of absorbent, which of the following relation is not related to absorption process?

(A)  $\frac{x}{m} = pxT$

(B)  $\frac{x}{m} = f(p) \text{ at constant } T$

(C)  $\frac{x}{m} = f(T) \text{ at constant } p$

(D)

$$p = f(T) \text{ at constant } \frac{x}{m}$$

---

CORRECT ANSWER: B

---

SOLUTION:

At constant temperature,  $T \frac{x}{m} \propto p^{1/n}$

Thus,  $\frac{x}{m} = f(p)$  at constant  $T$ .

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Q-2 - 14624631

Which one of the following is an incorrect statement for physisorption ?

(A) it is a reversible process

(B) It requires less heat of adsorption

(C) it requires activation energy

(D) It takes place at low temperature

---

CORRECT ANSWER: 3

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Q-3 - 12659908

According to Langmuir adsorption isotherm, the amount of gas adsorbed at very high pressure

(A) Reaches a constant limiting value

(B) Goes on increasing with pressure

(C) Goes on decreasing with pressure

(D) Increase first and decrease later with pressure

---

CORRECT ANSWER: A

---

## SOLUTION:

According to Langmuir adsorption isotherm the amount of gas adsorbed at very high pressure reaches a constant limiting volume.

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Q-4 - 12659914

Langmuir adsorption isotherm is best suitable for

- (A) Chemisorptions
- (B) physisorption
- (C) both (a) and (b)
- (D) none of these

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CORRECT ANSWER: A

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SOLUTION:

Langmuir adsorption isotherm deals with monomolecular layer possible for chemisorption.

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Q-5 - 12659915

Which are not purely surface phenomena?

- (A) Absorption, viscosity
- (B) adsorption, Absorption
- (C) Viscosity , surface tension
- (D) adsorption, viscosity

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CORRECT ANSWER: A

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SOLUTION:

Following are surface phenomena

(i) surface tension (ii) Adsorption

Viscosity and adsorption are not surface phenomena.

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Q-6 - 12659919

What will be effect of increases in temperature on physical adsorption?

- (A) it will decrease
- (B) it will Increase
- (C) First increase then decrease
- (D) none of these

---

CORRECT ANSWER: A

---

SOLUTION:

Since adsorption is an exothermic process (taking place with the evolution of heat) therefore, in accordance with Le-Chatelier's principle, the magnitude of physical adsorption will decrease with the increase in temperature. In case of chemisorption the adsorption first increased and then decreases. with increase in temperature.

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Q-7 - 12659920

Which of the following statements about chemisorption is not applicable?

- (A) It involves chemical force between adsorbent and adsorbate
- (B) it is irreversible in nature
- (C) it involves high heat of adsorption

(D) it does not require activation energy

---

CORRECT ANSWER: D

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SOLUTION:

Activation energy is required for chemical adsorption .

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Q-8 - 12659922

Gas masks containing activated charcoal to remove poisonous gases from atmosphere act on principle of

(A) Adsorption

(B) absorption

(C) sorption

(D) All of these

---



CORRECT ANSWER: A

---

SOLUTION:

Charcoal always do adsorption.

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Q-9 - 12659932

Adsorption is the phenomenon in which a substance :

- (A) accumulates on the surface of the other substance
  - (B) goes into the body of the other substance
  - (C) remain close to the other substance
  - (D) none of these
- 

CORRECT ANSWER: A

---

SOLUTION:

Accumulation substance on the surface of the other substance is known as adsorption.

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Q-10 - 12659936

For adsorption of gas on solid surface. The plots of  $\log x / m$  versus  $\log P$  is linear with a slope equal to

(A)  $K$

(B)  $\log K$

(C)  $\log C$

(D)  $\frac{1}{n}$  ( $n$  being Integer)

---

CORRECT ANSWER: D

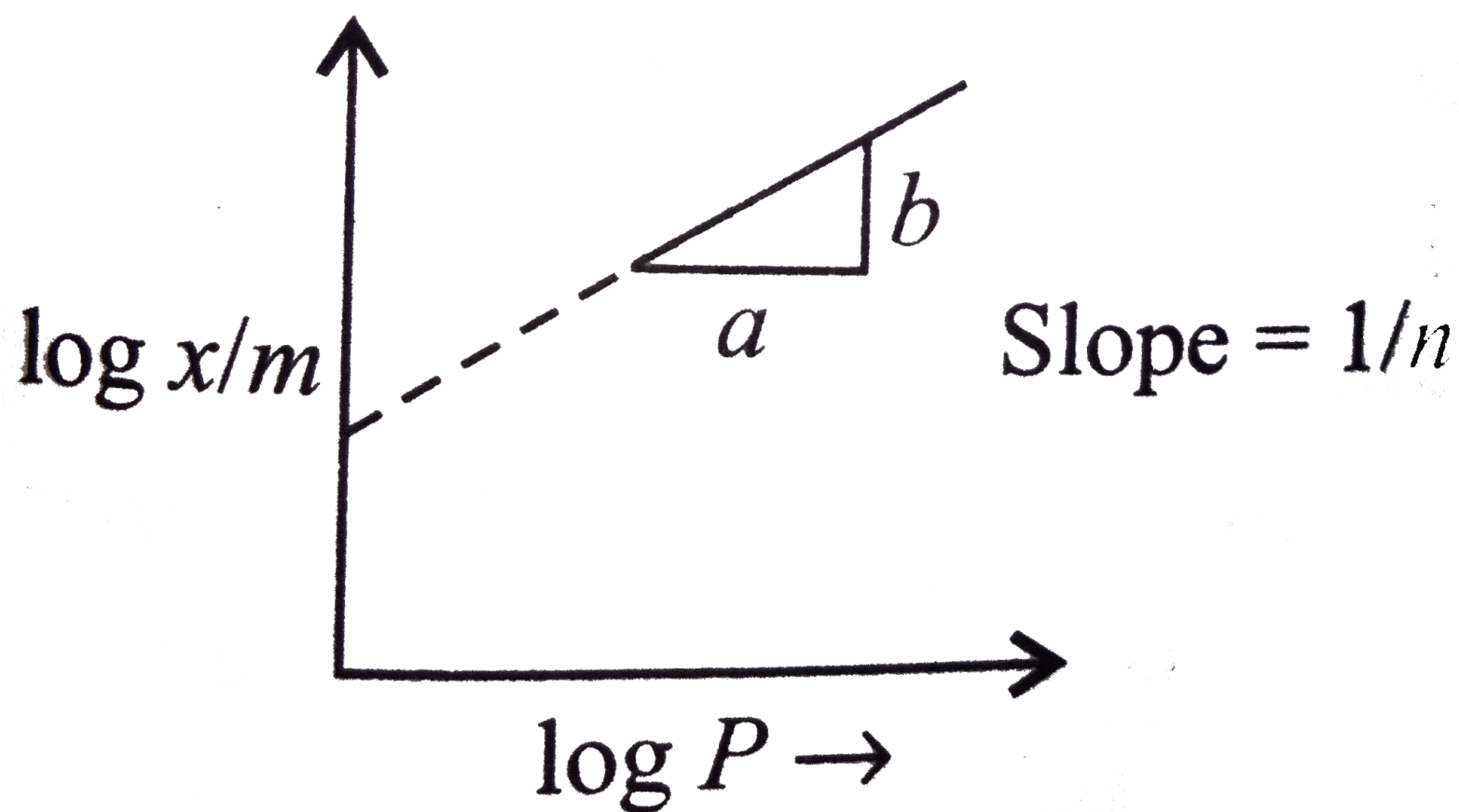
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SOLUTION:

$$x/m = k \cdot P^{\frac{1}{n}}$$

$$\log x/m = \log k$$

$$+ \frac{1}{n} \log P$$



$$\text{Slope} = \frac{1}{n} \text{ where } n \text{ being intergal.}$$

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Q-11 - 12659940

If  $H_2$  gas is made to adsorb on a surface, then the fraction of surface area of adsorbent covered by gas molecules is proportional to

(A)  $p$

(B)  $p^0$

(C)  $p^{1/2}$

(D)  $p^2$

---

CORRECT ANSWER: C

---

SOLUTION:

When a diatomic gas adsorbs as atoms on the surface of a solid, Langmuir adsorption isotherm becomes:

$$\theta = \frac{x}{m}$$
$$= \frac{(kP)^{1/2}}{1 + (kp)^{1/2}}$$

.

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Graph between  $\log x / m$  and  $\log p$  is a straight line inclined at an angle of  $45^\circ$ . When pressure is  $0.5 \text{ atm}$  and  $1/nk = 0.693$ , the amount of solute adsorbed per gram of adsorbent will be:

- (A) 1
- (B) 1.5
- (C) 0.25
- (D) 2.5

---

CORRECT ANSWER: A

---

SOLUTION:

$$\text{Log} \frac{x}{M} = \log k + \frac{1}{n} \log P$$

$$\frac{1}{n} = \tan 45^\circ \quad 1/nk = 0.69$$

$$n = 1/k = 2$$

$$\frac{x}{m} = 2 \times (0.5)^1$$

$$x = 1.$$

Q-13 - 12659943

If the dispersed phase is a liquid and the dispersion medium is a solid, the colloid is known as *a / an*

(A) sol

(B) emulsion

(C) gel

(D) foam

---

CORRECT ANSWER: C

---

SOLUTION:

*liquid*  
Dispersed phase  
+ *solid*  
Dispersed medium  
= *Gel* (*e. g Butter*)  
Colloid

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Q-14 - 12659950

Which one of the following is not a colloidal solution?

(A) Smoke

(B) Ink

(C) Air

(D) Blood

---

CORRECT ANSWER: C

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SOLUTION:

Air is not a colloidal solution because it is a homogeneous mixture.

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Q-15 - 12659965

the colloidal sols are purified by

- (A) Peptisation
- (B) Coagulation
- (C) Dialysis
- (D) Flocculation

---

CORRECT ANSWER: C

---

SOLUTION:

Dialysis is a process of removing impurities from colloidal sol.



Lyophilic sols are more stable than lyophobic sols because

- (A) the colloidal particles have positive charge
- (B) The colloidal particle have negative charge
- (C) the colloidal particle are solvated
- (D) There are strong electrostatic repulsions between the negatively charged colloidal particles

---

CORRECT ANSWER: C

---

SOLUTION:

These are highly solvated as the particles have great affinity for solvent.

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Which of the following is contributed towards the extra stability of lyophilic colloids?

(A) hydration

(B) charge

(C) colour

(D) tyndall effect

---

CORRECT ANSWER: A

---

SOLUTION:

Lyophilic means liquid loving hence hydration is contributed towards the extra stability of lyophilic colloids.

Which of the following statements is not correct for a lyophobic solution?

- (A) It can be easily solvated
- (B) It carries charges
- (C) The coagulation of this sol is irreversible in nature
- (D) It is less stable in a solvent

---

**CORRECT ANSWER: A**

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Liquid-Liquid sol is known as

(A) aerosol

(B) foam

(C) emulsion

(D) gel

---

CORRECT ANSWER: C

---

SOLUTION:

Emulsion is liquid in liquid sol.

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Q-20 - 12659987

The colloidal system consisting of a liquid adsorbate in a solid adsorbent is termed as:

(A) aerosol

(B) foam

(C) emulsion

(D) gel

---

CORRECT ANSWER: D

---

SOLUTION:

Liquid in solid sol is gel.

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Q-21 - 12659988

When dispersed phase is liquid and dispersion medium is gas, then the colloidal system is called

(A) smoke

(B) clouds

(C) emulsion

(D) jellies

---

CORRECT ANSWER: B

---

SOLUTION:

dispersed phase

liquid

+ dispersion medium

gas

— Colloidal system

clouds

.

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Q-22 - 34967504

Size of colloidal particles may range from:

(A) 1 to  $1000\text{nm}$

(B) 10 to 100 pm

(C) 1 to  $100\mu m$

(D) 1 to  $10mm$

---

CORRECT ANSWER: A

---

SOLUTION:

Colloidal particle has size range of 1 to 1000 nm.

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Q-23 - 12659993

which of the following is a hydrophilic colloidal sol?

(A) Barium sulphate sol.

(B) Arsenious sulphide sol.

(C) Starch sol.

(D) Silver iodide so.

---

CORRECT ANSWER: C

---

SOLUTION:

Starch sol. Is example of hydrophilic sol.

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Q-24 - 41494743

Which of the following represents a macromolecular colloidal particles ?

(A) Solution of gold

(B) Cellulose

(C) Soaps

(D) Synthetic detergents

---

CORRECT ANSWER: B

---



Q-25 - 12660002

The redispersal of a freshly precipitated substance into a sol by the addition of the addition of an electrolyte in common is known as

- (A) Aggregation
- (B) Condensation
- (C) Coagulation
- (D) Peptization

---

CORRECT ANSWER: D

---

SOLUTION:

It is definition of peptization.

The minimum concentration of an electrolyte required to cause coagulation or flocculation of a sol is called its flocculation value. It is expressed in

(A)  $\text{mol L}^{-1}$

(B)  $\text{g L}^{-1}$

(C) millimoles  $\text{L}^{-1}$

(D) equivalent  $\text{L}^{-1}$

---

CORRECT ANSWER: C

---

SOLUTION:

The minimum concentration of an electrolyte required to cause coagulation is its flocculation value and is expressed in millimoles  $\text{L}^{-1}$ .

---

Q-27 - 12660008

In which of the following Tyndall effect is not observed

(A) Suspensions

(B) emulsion

(C) Sugar solution

(D) Gold sol.

---

CORRECT ANSWER: C

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SOLUTION:

True solution does not show Tyndall effect like sugar solution.

The average molecular mass of colloidal can be determined by

- (A) Tyndall effect
  - (B) Boiling of colloidal
  - (C) osmotic pressure measurement
  - (D) Flocculation value
- 

CORRECT ANSWER: C

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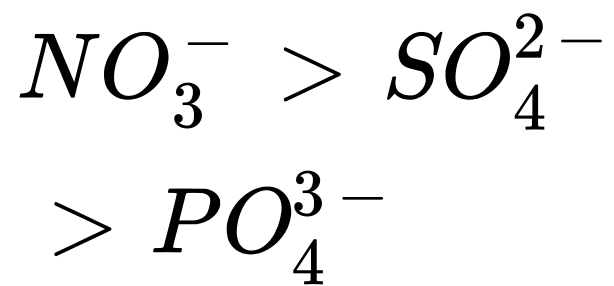
SOLUTION:

From osmotic pressure measurement , we can determine average molecular mass of colloids .

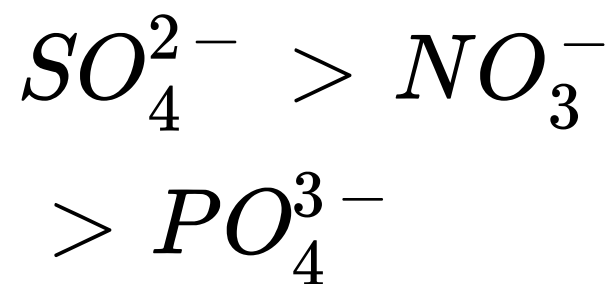
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Ferric hydroxide sol is positively charged colloid. The coagulating power of  $NO_3^-$ ,  $SO_4^{2-}$  and  $PO_4^{3-}$  ions would be in the order

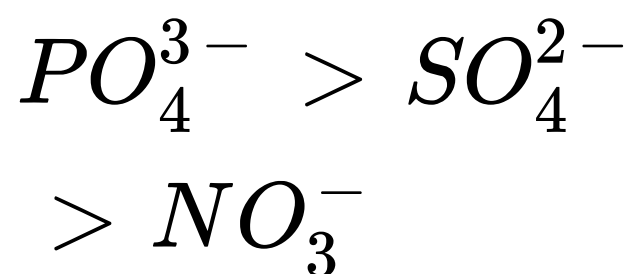
(A)



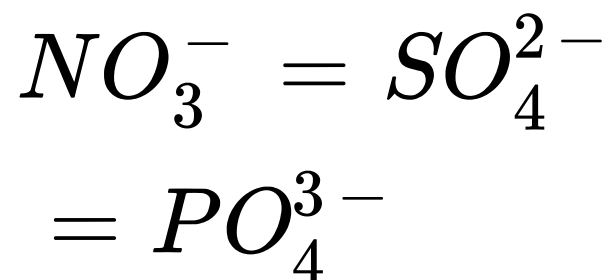
(B)



(C)



(D)



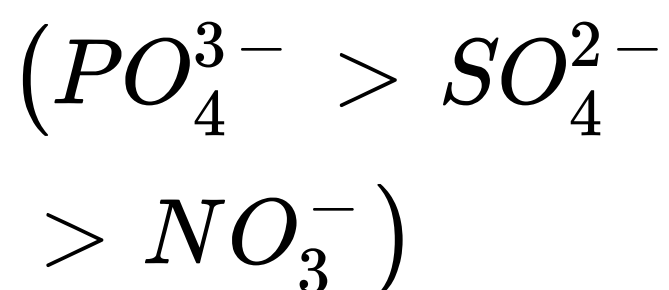
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CORRECT ANSWER: C

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SOLUTION:

According to Hardy schulze rule the ions having opposite charge to sol particle cause coagulation and greater the valency of oppositely charged ion more is the coagulating power



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Q-30 - 12660017

Movement of colloidal particles under the influence of electrostatic field is

- (A) Electrophoresis
- (B) Electrolysis
- (C) Dialysis

(D) Ionisation

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CORRECT ANSWER: A

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SOLUTION:

Movement of charged colloidal particles under the influence of electrostatic field is called electrophoresis due to opposite charge.

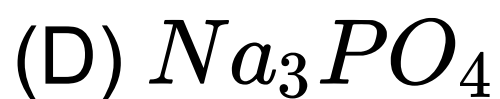
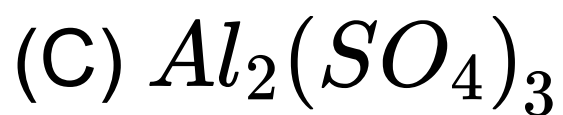
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Q-31 - 12660021

Arsenic (III) sulphide forms a sol with a negative charge. Which of the following ionic substances should be most effective in coagulating the sol?

(A)  $KCl$

(B)  $MgCl_2$



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CORRECT ANSWER: C

---

SOLUTION:

The more the charge on cation, the more the effectiveness of the electrolyte.

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Q-32 - 12660029

Bleeding is stopped by the application of ferric-chloride this is because:

(A) ferric chloride seal the blood cells

(B) blood starts flowing in the other direction



(C) Blood is coagulated and blood vessel is sealed

(D) None of these

---

CORRECT ANSWER: C

---

SOLUTION:

$Fe^{3+}$  ion coagulates -ve sol particles of blood and seals the cut.

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Q-33 - 12660018

Which of the following substance gives a positively charged sol?

(A) Gold

(B) A metal sulphite

(C) ferric hydroxide

(D) An acidic dye

---

CORRECT ANSWER: C

---

SOLUTION:

$Fe(OH)_3$  gives a positively charged sol as it adsorbs  $Fe^{3+}$  ions from  $FeCl_3$  solution.

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Q-34 - 12660033

colloidal solution of arsenious sulphide is coagulated by

(A) addition of electrolyte

(B) addition of non-electrolyte

(C) addition of solid  $As_2S_3$

(D) None of these

---

CORRECT ANSWER: A

---

SOLUTION:

$As_2S_3$  is coagulated by addition of electrolyte due to opposite charge.

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Q-35 - 12660071

If some gelatin is mixed in collidal solution of gold, then it does

- (A) Coagulation of gold
  - (B) Peptization of gold
  - (C) protection of gold sol
  - (D) protction of gelatin
- 

CORRECT ANSWER: C

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## SOLUTION:

Some gelatin is mixed in colloidal solution of gold to form ppt. of gold (peptization of gold). Because formation of layer on colloidal particle.

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Q-36 - 12660037

"Delta" at the rivers are formed due to

- (A) Peptization
- (B) Coagulation
- (C) hydrolysis
- (D) Precipitation

---

CORRECT ANSWER: B

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## SOLUTION:

"Delta" at the rivers are formed due to coagulation between sea water (+ve charged particles) and river water (-ve charged particles).

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Q-37 - 12660075

A coagulating agent frequently added to water to remove the suspended and colloidal impurities is

- (A) Mohr salt
- (B) Alum
- (C) Bleaching powder
- (D) Copper sulphate

---

CORRECT ANSWER: B

## SOLUTION:

Alum is a coagulating agent, frequently added to water to remove impurities from water because impurities contain negative charge and alum give positive charge particle for coagulation.

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Q-38 - 12660040

Ferric chloride is applied to stop bleeding cut because

(A)  $Fe^{3+}$  ion coagulates blood, which is a negatively charged sol.

(B)  $Fe^{3+}$  ion coagulates blood, which is a positively charged sol.

(C)  $Cl^-$  ion coagulates blood, which is a positively

charged sol.

(D)  $Cl^-$  ion coagulates blood, which is a negatively charged sol.

---

CORRECT ANSWER: A

---

SOLUTION:

$FeCl_3$  is an electrolyte give  $Fe^{3+}$  and blood contain negatively colloid so stop bleeding due to coagulation.

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Q-39 - 12660045

Alum helps in purifying water by

(A) Forming  $Si$  complex with clay particles

(B) Sulphate part which combines with the dirt and removes it

(C) Aluminium which coagulates the mud particles

(D) Making mud water soluble

---

CORRECT ANSWER: C

---

SOLUTION:

Alum helps in purifying water by  $Al^{3+}$  ions which coagulate the negative mud particles.

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Q-40 - 12660046

Maximum coagulation power is in

(A)  $Na^{+}$

(B)  $Ba^{++}$

(C)  $Al^{+++}$



(D)  $Sn^{++++}$

---

CORRECT ANSWER: D

---

SOLUTION:

$Sn^{4+}$  contains maximum coagulation power

(coagulation power  $\propto$  number of charge on ion).

Flocculation value is expressed in terms of

(a) millimole per litre (b) mole per litre

(c) gram per litre (d) mole per millilitre

(e) Flocculation value is expressed in terms of millimole per litre.

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Q-41 - 46827728

On adding few drops of dilute HCl or  $FeCl_3$  to freshly precipitated ferric hydroxide a red coloured colloidal solution is obtained. The

phenomenon is known as:-

(A) Peptization

(B) Dialysis

(C) Protective action

(D) Dissolution

---

CORRECT ANSWER: A

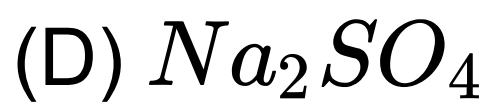
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SOLUTION:

The phenomenon of converting of fresh mass into colloidal state by the action of solute or solvent is known as peptization.

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Gold sol is an electronegative sol. The amount of electrolyte required to coagulate a certain amount of gold sol is maximum in this case of



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CORRECT ANSWER: C

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SOLUTION:

Coagulation is governed by Hardy schulze rule.

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Gold number is maximum for the lyophilic sol is

- (A) Gelatin
- (B) Haemoglobin
- (C) Sodium oleate
- (D) Potato starch

---

CORRECT ANSWER: D

---

SOLUTION:

Gold number shows the protective power of a lyophilic solution. Lesser the gold number, greater will be the protecting power of that colloid. Gelatin is one of the best protective colloid. Among the given colloids, Potato starch has maximum gold number.

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Formation of ammonia from  $H_2$  and  $N_2$  by Haber's process using  $Fe$  is an example of

- (A) Heterogeneous catalysis
- (B) Homogenous catalysis
- (C) Enzyme catalysis
- (D) Non-catalytic process

---

CORRECT ANSWER: C

---

SOLUTION:

Many of the d-block (transition) elements and their compounds act as catalyst. Catalytic property is probably due to the utilisation of  $(n - 1)d$  orbitals of formation of interstitial compounds.

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Q-45 - 12660098

the catalyst used in the contact process for manufacturing of sulphuric acid is

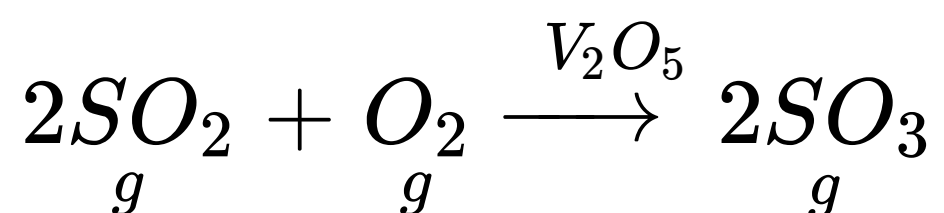
- (A) Copper
- (B) Iron//aluminium oxide
- (C) Vanadium pentoxide
- (D) Platinized asbestos

---

CORRECT ANSWER: C

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SOLUTION:



Which of the following catalyses the conversion of glucose into ethanol?

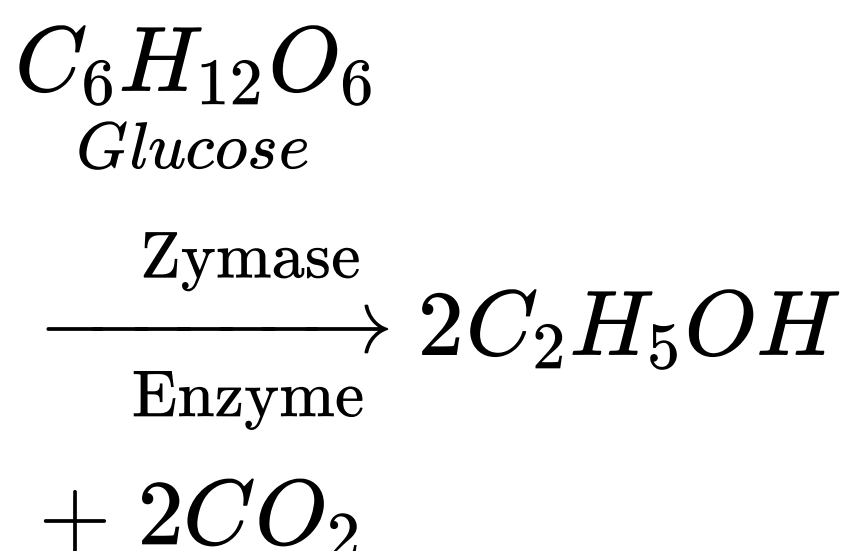
- (A) Zymase
- (B) Invertase
- (C) Maltase
- (D) Diastase

---

CORRECT ANSWER: A

---

SOLUTION:



In the reversible reaction a catalyst is the substance which

- (A) increases the rate of the forward reaction
- (B) Decreases the value of enthalpy change in the reaction
- (C) Reduces the time required for reaching the equilibrium state in the reaction.
- (D) Decreases the rate of the reverse reaction.

---

CORRECT ANSWER: C

---

SOLUTION:

In the reversible reaction a catalyst is the substance which reduces the time required for reaching the equilibrium state in the reaction.

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Q-48 - 12660110

The transition metal used as a catalyst is

- (A) Nickel
- (B) Platinum
- (C) Cobalt
- (D) All of these

---

CORRECT ANSWER: D

---

SOLUTION:

*Ni*, *Pt* and *Co* all three transition metal are used as a catalysts.

Assertion: A catalyst is more effective in finely divided form.

Reason: Finely divided form has more surface area.

(A) If both assertion and reason are true and the reason is the correct explanation of the assertion.

(B) If both assertion and reason are true and the reason is not the correct explanation of the assertion.

(C) If assertion is true but reason is false.

(D) If assertion is false but reason is true.

---

CORRECT ANSWER: A

---

SOLUTION:

A catalyst is more effective in finely divided form because finely divided form has more surface area.

Therefore there is an increase in active centres on the surface<sup>3</sup>.

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Q-50 - 12660127

**Assertion:** The Brownian movement is due to the bombardment on colloidal particle by the molecules of dispersion medium which are in the constant motion like molecules in a gas.

**Reason:** Brownian movement provides a visible proof of the random kinetic motion of molecules in a liquid.

(A) If both assertion and reason are true and the reason is the correct explanation of the assertion.

(B) If both assertion and reason are true and the reason is not the correct explanation of the assertion.

(C) If assertion is true but reason is false.

(D) If assertion is false but reason is true.

---

CORRECT ANSWER: B

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SOLUTION:

on the basis of Brownian movement, we can say that molecules are in continuous motion.

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Q-51 - 12660128

Assertion: In physisorption, adsorption increase with increases in temperature.

Reason: Physisorption is of exothermic nature.

(A) If both assertion and reason are true and the reason is the correct explanation of the assertion.

(B) If both assertion and reason are true and the reason

is not the correct explanation of the assertion.

(C) If assertion is true but reason is false.

(D) If assertion is false but reason is true.

---

CORRECT ANSWER: D

---

SOLUTION:

Physisorption decreases with increase in temperature.

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Q-52 - 11045662

Assertion(A): Langmuir adsorption is a single-layer phenomenon.

Reason(R): It is due to van der Waals forces.

(A) If both (A) and (R) are correct, and (R) is the correct explanation of (A)

(B) If both (A) and (R) are correct, but (R) is the correct explanation of (A).

(C) If (A) is correct, but (R) is incorrect.

(D) If (A) is incorrect, but (R) is correct.

---

CORRECT ANSWER: C

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SOLUTION:

The single layer formed may be due to van der Waals adsorption or chemisorption.

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Q-53 - 46827505

If  $x$  is amount of adsorbate and  $m$  is amount of adsorbent, which of the following relations is not related to adsorption process:-

(A)  $\frac{x}{m} = p \times T$

(B)  $\frac{x}{m} = f(p)$  at constant T

(C)  $\frac{x}{m} = f(T)$  at constant P

(D)  $p = f(T)$  at constant  $\left(\frac{x}{m}\right)$

---

CORRECT ANSWER: A

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SOLUTION:

$x / m = P \times T$  is the incorrect relation

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Q-54 - 46827507

If Freundlich Adsorption isotherm, the value of  $1/n$  is:-

(A) Between 0 and 1 in all cases

(B) Between 2 and 4 in all cases

(C) 1 in case of physical adsorption

(D) 1 in case of chemisorption

---

CORRECT ANSWER: A

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SOLUTION:

$$\frac{X}{M} = KP^{\frac{1}{n}} \Rightarrow 0$$
$$\leq \frac{1}{n} < 1$$

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Q-55 - 12660172

Catalyst used in hydrogenation of oils is

(A)  $Pt$

(B)  $Mo$

(C)  $Fe$

(D)  $Ni$

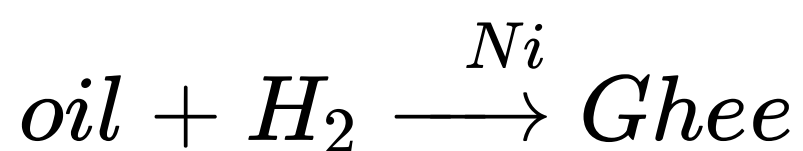
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CORRECT ANSWER: D

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SOLUTION:



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Q-56 - 12660173

Catalyst used in the oxidation of  $SO_2 \rightarrow SO_3$

(A) Nickel

(B)  $ZnO \cdot Cr_2O_3$

(C)  $V_2O_5$

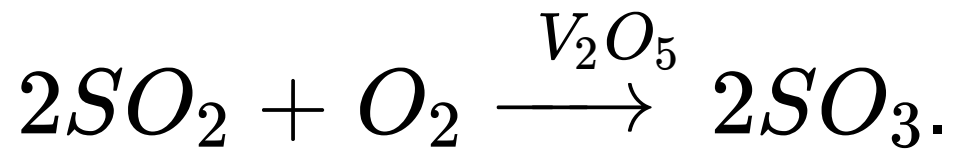
(D) Iron

---

CORRECT ANSWER: C

---

SOLUTION:



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Q-57 - 12660019

Which of the following is not represented by sols?

- (A) adsorption
- (B) Tyndall effect
- (C) Flocculation
- (D) Paramagnetism

---

CORRECT ANSWER: D

---

SOLUTION:

Adsorption, Tyndall effect and flocculation are property of sols.

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Q-58 - 18255801

Identify the gas which is readily adsorbed by activated charcoal?

(A)  $H_2$

(B)  $N_2$

(C)  $SO_2$

(D)  $O_2$

---

CORRECT ANSWER: C

---

SOLUTION:

Easily liquefiable gases like  $SO_2$ ,  $NH_3$  have greater value of critical temperature than elemental gases, i.e.

$N_2$ ,  $O_2$ ,  $H_2$  thus, readily get adsorbed.

---

Q-59 - 12659909

Noble gases are adsorbed by

(A) Anhydrous calcium chloride

(B) Ferric hydroxide

(C) Cons,  $H_2SO_4$

(D) Activated coconut charcoal

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CORRECT ANSWER: D

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SOLUTION:

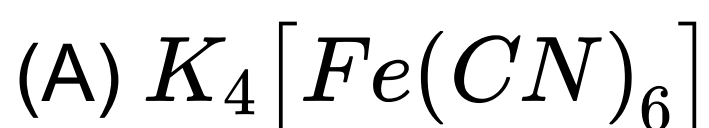
Noble gases are adsorbed by coconut charcoal . The adsorption of different noble gases occur at different temperature. Hence, charcoal is used to separate these gases. Helium is not absorbed by charcoal (as it is a

very difficult liquefiable gas).

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Q-60 - 12660007

Which of the following electrolytes is least effective in causing flocculation of ferric hydroxide sol?



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CORRECT ANSWER: C

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SOLUTION:

$KBr$  is least effective in causing flocculation of ferric

hydroxide sol sue to minimum charge at  $(KBr)Br$ .

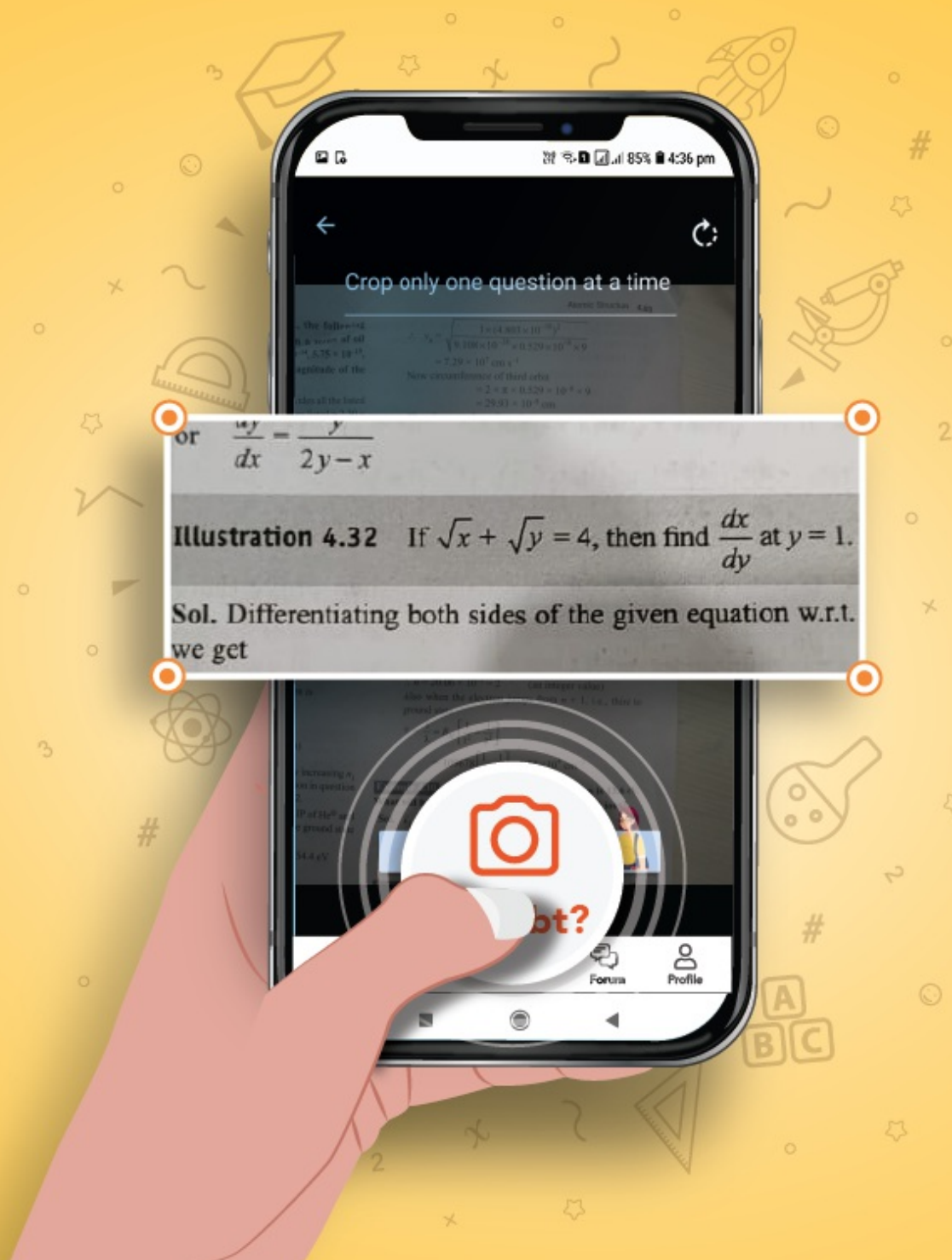
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