CLA 3 - PRACTICAL COMPONENT - MCQ

MCQ
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* Required
MCQ - Answer all the questions
The electrolyte solution within the glass electrode is *
saturated KCI
dilute KCl
dilute NaCl
saturated NaCl
A buffer solution comprises which one of the following? *
a weak acid in solution
a weak acid and its conjugate base in solution
a strong acid and its conjugate base in solution
a weak base in solution

In conductometric titration the titrant concentration must be as that of the titrand *
same
5 times
O 10 times
odoes not depend on the concentration
Soft water + Buffer + EBT gives*
Appearance of wine-red colour
Formation of weak complex
Formation of reddish brown precipitate
Appearance of steel blue colour
Titre value of methyl orange corresponds to *
sodium hydroxide plus half the carbonate
osodium hydroxide only
osodium hydroxide and sodium carbonate
sodium carbonate only

On increasing the temperature, the viscosity of the fluid*
Initially decreases then increases
Increases
O Decreases
O No change is observed
When pH is below 8.5 the indicator is colourless *
Methyl orange
Eriochrome black - T
Phenolpthalein
O Potassium chromate
Which of the following chemical agent is added during the estimation of Fe(II) ions by potentiometry to avoid the hydrolysis reaction during the titration? *
dilute HCl
Conc. HCI
o dilute sulphuric acid
O dilute nitric acid

End point sharpness in precipitation titration will be improved if *
reagent concentration decreases and product precipitate Ksp decreases
reagent concentration increases and product precipitate Ksp increases
reagent concentration decreases and product precipitate Ksp increases
reagent concentration increases and product precipitate Ksp decreases
At the same concentration and temperature, dilute aqueous solution of strong
acid will conduct electricity *
better than dilute aqueous solution of weak acid
as much as dilute aqueous solution of weak acid
O lower than the dilute aqueous solution of weak acid
two-fold higher than the weak acid
All of the following statements are correct regarding potentiometric titration
except *
They are suitable for colored or turbid solutions
The results obtained are accurate
Acid base titration can also be carried out by potentiometry
The EMF of the cell is zero at the equivalence point

Which of the following is not a primary standard? *
Silver nitrate
Oxalic acid
Sodium chloride
Anhydrous sodium carbonate
Glass electrode do not permit the direct potentiometric measurement of ion
Na+
O H+
Ca2+
None of the above
In determination of mixture of bases by titration method, the amount of Sodium Hydroxide is calculated as *
N x Equivalent mass of Sodium Carbonate / 10
N [OH and CO32- portion] x Equivalent mass of Sodium Hydroxide and Sodium carbonate / 10
N [OH portion] x Equivalent mass of Sodium Hydroxide / 10
N [CO32- portion] x Equivalent mass of Sodium carbonate /10

25ml of 0.1 N NaOH solution is required for complete neutralisation of 0.32 g of an acid, What will be the molecular weight of the acid? *
O 64
128
O 32
O 16
To prepare 25 ml of 0.2 % diluted solution from a 1% solution, we need *
10 ml of 1 % solution
5 ml of 1 % solution
2.5 ml of 1 % solution
7.5 ml of 1 % solution
Which of the following represents the equivalence point in the graph of EMF vs volume of titrant? *
Point at the highest EMF
O Point at the lowest EMF
Point at the greatest magnitude of the slope of the curve
Point at the least magnitude of the slope of the curve

Name the reference electrode and working electrode used in the estimation of Fe(II) ions by potentiometry *
Platinum electrode and Standard Calomel Electrode
Standard Calomel Electrode and Platinum electrode
Standard Calomel Electrode and Glass electrode
Glass electrode and Platinum electrode
If 20 g of NaOH is dissolved in 500 mL of distilled water, then what is the concentration of the solution? *
● 1 N
O.05 N
O.5 N
O.025 N
The titration of FAS vs Potassium dichromate yields the following : MFe2+VFe2+ = X MCr2O7VCr2O7. What is X ? *
O 3
1
O 6
O 4

Why do we have to standardize AgNO3 solution? *
To calculate the normality of AgCl
To find the normality of NaCl
To calculate the volume of NaCl
To find the normality of AgNO3
In EDTA method, the formation constant of the metal-EDTA should be *
above 10^4
O below 10^4
at equilibrium = 0
onot dependent on formation constant
What is the pH range in which chloride determination using Mohr's method is conducted? *
less than 4
neutral pH
9-12
○ 6-9

The significance of first derivative and second derivative plot in potentiometric titration is*
To get additional information about the redox reaction
To get more accurate equivalence point in case of colored and dilute solutions
To get the value of standard electrode potential
To get the voltage of reference electrode
In the plot of reduced viscosity versus concentration, the Y-intercept is*
specific viscosity
intrinsic viscosity
inherent viscosity
relative viscosity
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