

**CHEMISTRY PAPER-III Practice paper Sem-IV**

<b>Question</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>
The stationary phase in paper chromatography is a _____ .	solid	liquid	gas	resin
_____ distillation of coal tar is used for industrial production of liquid fuels	Azeotropic	Steam	Vacuum	Fractional
Colloidal particles can be separated by _____	filtration	extraction	electrophoresis	crystallisation
Solvent extraction is also referred to as _____ extraction.	solid-liquid	liquid-liquid	gas-liquid	solid-gas
The Do/w when aq. FeCl <sub>3</sub> in conc. HCl is shaken with twice its volume of ether giving 99% extraction is _____.	49.5	198	50	19.8
The pH value of a solution expresses the degree.....	of its acidity	of its alkalinity	of its acidity and alkalinity	of its neutrality
Role of pH in detection of metal ion in environmental sample can be as follow.....	A strong base of pH 10 is required to perform complexometric titration using EDTA titrant	A buffer of pH 7 is required to perform complexometric titration using EDTA titrant	A strong acid of pH 2 is required to perform complexometric titration using EDTA titrant	A buffer of pH 10 is required to perform complexometric titration using EDTA titrant
Mercury is used as indicator electrode during.....	Acid-Base titration	Complexometric titrations	Redox titration	Precipitation titration
Conductometric titration is classified under the class of .....	Optical method	Voltammetric method	Thermal method	Electrometric method

What will be the nature of conductometric curve for titration of NaOH against HCl as titrant	Initially the conductance will decrease and after equivalence point there will be practically no increase in conductance	Initially the conductance will increase and after equivalence point there will be practically no increase in conductance	Initially the conductance will increase and after equivalence point there will be sharp increase in conductance	Initially the conductance will sharply decrease and after equivalence point there will be sharp increase in conductance
Median for the following sets of values 6.10, 6.12, 6.14, 6.10, 6.12 and 6.14	6.1	6.12	6.125	6.14
The range _____ will cover 99.70% of the total population	$\mu + \sigma$	$\mu + 2\sigma$	$\mu + 3\sigma$	$\mu + 4\sigma$
If the deviation of the doubtful value from the mean of good values is equal or greater than 4 times the average deviation from the mean, the doubtful value can be _____	Retained	Multiplied by 4	added to mean	Rejected
The statistical factor 'Z' is defined as the ratio of _____ from the true mean to population standard deviation	Absolute deviation	Relative deviation	Variance	Standard deviation
Cadmium content (ppm) in the sample is analysed , Following values were reported: 4.6, 4.7, 4.5, 4.9. $Q_{cal} =$ _____	0.5	10	5	0.4