

Analytical Chemistry Paper IV- Sem IV

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
If the value of distribution ratio D is large, what is the efficiency of extraction ?	Efficiency of extraction is less	Efficiency of extraction is large	no efficiency	Efficiency is moderate
The efficiency of extraction is found out by which of the given condition?	Solubility	Nature of solvent	Nature of solute	Amount of solute unextracted
Which of the given element can be extracted in presence of copper by adding EDTA?	Iron	Nickel	Vanadium	Aluminium
When the efficiency of extraction is said to be greater?	Amount of unextracted solute is smaller	Amount of unextracted solute is greater	Amount of extracted solute is smaller	Amount of unextracted solute is moderate
From which of the given solvent Fe III can be quantitatively extracted using HCl medium?	Benzene	Aniline	Diethyl ether	Water
Efficiency of extraction is measured in terms of which of the given condition?	Amount of solute soluble	Amount of solute extracted	Amount of solute unextracted	Amount of solute partially soluble
When the distribution ratio is low, which of the given extraction is used?	Single extraction	Multiple extraction	Double extraction	Liquid/solid extraction.
Which of the given solvent is used for the separation of uranyl ion?	Iso-butanol	water	Nitric acid	Benzene
When does the efficiency of extraction increase?	when no. of extraction decreases	when volume of the solvent decreases	when volume of the solvent increases	when number of extraction increases
Which solvent is used to form complexes with metal ion in synergistic agents?	Inorganic solvent	organic solvent	polar solvent	Aqueous solvent

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Why chelating agents are used in extraction of metal ion ?	They form ionic bond	They form metallic bond	They form co-ordinate bond	They form co-valent bond
Solvent extraction is a type of separation method.	Physical	Chemical	Biochemical	Electroanalytical
Solvent extraction is also called as extraction.	Liquid-Liquid	Solid-liquid	Solid -gas	Solid-solid
Separatory funnel is used in technique.	Chromatography	Solvent extraction	Nephelometry	Turbidimetry
Ionic compounds are soluble in	Benzene	Carbon tetra chloride	Ether	Water
Organic compounds are soluble in	Water	Ether	Dilute hydrochloric acid	Dilute nitric acid
In solvent extraction technique equipment is used for the separation of components in mixture.	Separatory funnel	Volumetric flask	Conical flask	Round bottom flask
Solubility of compound is a property.	Physical	Chemical	Biochemical	Physicochemical
Complex formation is a process.	Physical	Chemical	Biochemical	Physicochemical
The ratio of total concentration of species in organic phase to total concentration of species in aqueous phase is known as	Distribution ratio	Distribution coefficient	Efficiency of extraction	percent extraction
Craig extraction is also called as	countercurrent extraction	Batch extraction	single extraction	Double extraction
In solvent extraction the solvent should have Solubility in aqueous phase.	Low	High	Moderate	Very high