





MCQ5: The weakly bonded water molecules are known as â€!?

Answer: Water of hydration and crystallization

MCQ6: On heating a copper sulphate crystal, a colour change from blue to white was observed and the blue colour reappears again upon cooling the crystals in an open container. Which of these best describes what happen to the crystals?

Answer: The water of hydration of the crystal was lost during heating and gained on

cooling

MCQ7: Indicate which one of these substances act similar to hydrates?

Answer: Deliquescence substance

MCQ8: The percentage of hydrated water can be calculated as, %H2O= (num. H2O molecules) molecular mass of hydrate divided by molecular mass of water X 100. True or false?

Answer: False

MCQ9: Which one of these substances is used as a drying agent?

Answer: Hygroscopic substances

MCQ10: Gravimetric analysis can be generalized intoâ€l..?

Answer: Precipitation and volatilization

MCQ11: Give two common examples of inorganic precipitating agent

Answer: Silver nitrate and barium chloride

MCQ12: Sodium tetraphenylborate can be used to precipitate the following exceptâ€!..?

Answer: Chloride ions

MCQ13: The products of precipitation are â€!?

Answer: salts

MCQ14: The possible bond holding precipitation together when inorganic precipitating

reagents are added includeâ€!..?

Answer: Ionic bond

MCQ15: The bond formed between organic precipitating agent that contain carboxylic

group and metallic ions solution is……?

Answer: Covalent bond

MCQ16: What is the name of a ring like product formed between a multi-dentate ligand

and a cation?
Answer: Chelate

MCQ17: A bi-dentate ligand is an organic reagent containing how many functional

groups and can combine with metallic ions

Answer: Two functional groups

MCQ18: Below are the three major requirements for a good gravimetric analysis exceptâ€l.?

Answer: The reagent will react only with the analytes of interest to form ionic solution

MCQ19: In the precipitation process of chloride ions when insufficient amount of silver

nitrate is used predict what will happen to this procedure?

Answer: All of the above

MCQ20: What is the simple procedure for checking complete precipitation occurrence of chloride ions using silver nitrate reagent?

Answer: Without stirring further, add silvernitrate until the solution remains clear

MCQ21: Why must we cover the product of precipitation reaction between chloride ion and silver nitrate reagent?

Answer: To avoid decomposition of the silver chloride in the presence of light

MCQ22: What is the name of the indicator used in complexometric titration between silver nitrate and sodium chloride?

Answer: Eriochrome black T indicator

MCQ23: The end point colour change during complexometric titration isâ€l.?

Answer: Pale-blue

MCQ24: One of the common differences between acid-base and complexometric titration isâ€!..?

Answer: Complexometric analysis are useful for determination of mixture of different ions in solution

MCQ24: Hard water is due to the presence of the following except

Answer: Na+

MCQ26: Scaly residue upon evaporation is a characteristic ofâ€lâ€l.?

Answer: Hard water

MCQ27: The indicator used in determining the end point of complexometric titration in

hard water analysis is called? Answer: Mordant Black II

MCQ28: What is the role of EDTA in complexometric titration?

Answer: It is a chelating agent

MCQ29: The end point colour change of complexometric titration for calcium and

magnesium in the presence of suitable indicator isâ€!.?

Answer: Blue colour

MCQ30: The chemical formula of Alum isâ€!?

Answer: KAI(SO4).12H2O

MCQ31: Why are aluminium beverage cans not reactive with the beverage contents

Answer: Because the cans have thin plastic coating on the inside

MCQ32: To remove the thin plastic coating on the walls of the aluminium, the metal is

dissolved in which solution?

Answer: Potassium hydroxide solution

MCQ33: What are major residual impurities that are removed from the aluminium

beverage can?

Answer: Plastics and aluminium ions

MCQ34: The clear colourless solution observed when impurities are removed from

aluminium beverage can include?

Answer: Potassium hydroxide and aluminium hydroxide

MCQ35: The reagent used to precipitate aluminium from aluminate is?

Answer: Sulphuric acid