





Answer: Dissolve 2 cm3 of the stoke solution in 248 cm3 of water

MCQ5: A substance which loses water of hydration upon exposure to atmosphere is

called?

Answer: Efflorescence substance

MCQ6: A substance which takes in only moisture upon exposure to atmosphere is

referred to as?

Answer: Deliquescent substance

MCQ7: A table of requirement for laboratory experiment contains the following except?

Answer: List of weight of each reagents

**MCQ8: Give reason why water should not be added to acid during carrying out acid-base titration?

Answer: The dissolution of acid in water is exothermic which may cause explosion

MCQ9: The concentration of pure HCl 11.7 Molar if 20 cm3 of the acid is diluted to 250 cm3 to give concentration of 0.936 mol.dm3 substitute this values on this equation; CIVI=C2V2?

Answer: 11.7 X 20 = 0.936 X 250

MCQ10: The point at which stoicheometrically equivalent quantities of substance have

been brought together is known as? Answer: Equivalence point of titration

MCQ11: Which of the following options is an indicator used for acid-base titration?

Answer: Methyl orange

MCQ12: In an acid base titration conducted by a student, the colour of the solution in the beaker changed from colourless to pink when phenolphthalein was used as an indicator, what went wrong?

Answer: The beaker was occupied by acid solution instead of base.

MCQ13: What is a PH of a solution?

Answer: It is the measure of hydrogen ions concentration in the solution

MCQ14: At neutralization point, the PH value is?

Answer: Seven

MCQ15: At complete neutralization point, the litmus paper colour turns?

Answer: Purple

MCQ16: Predict the colour of methyl orange when pH is 8?

Answer: Yellow

MCQ17: What is the colour of bromothymol when added to an acid solution?

Answer: Yellow

MCQ18: An indicator X was added to an acid solution in a beaker but no colour change

was observed give the name of the indicator X?

Answer: Phenolphthalein

MCQ19: What is a strong acid?

Answer: Any acid that ionizes completely in solution

MCQ20: An example of a strong acid is?

Answer: H2SO4

MCQ21: What type of indicator will be suitable for use in a titration involving H2SO4 +

NH3(ag)?

Answer: Methyl orange

MCQ22: Which of these indicators will be suitable for use in a titration involving a weak

acid and a strong base? Answer: Phenolphthalein

MCQ23: What is the implication of adding a phenolphthalein as an indicator during the

titration of HCl against Na2CO3?

Answer: The end point will appear when only half of Na2CO3 has been used

MCQ24: What is the importance of back titration?

Answer: To determine the concentration of a substance that is in excess after a

chemical reaction.

**MCQ25: A 25 ml solution of 0.5 M NaOH is titrated until neutralized into a 50 ml

sample of HCI? Answer: 0.25 mol

MCQ26: A student used a hard tap water and performed and acid base titration. In few

lines explain what would happen to his result?

Answer: the starting solution would be more alkaline therefore it would require more

volume of acid than expected

MCQ27: Choose the most suitable water for use in acid base titration?

Answer: Deionised water

MCQ28: Both molarity and normality are measures of concentration. True or false?

Answer: True

MCQ29: During acid-base titration sulphuric acid would be dissociated into what ions?

Answer: 2H+ + SO4-

MCQ30: What is a titrand in titration anlysis? Answer: Unknown concentration of an analyte

MCQ31: What is a titrant in titration analysis?

Answer: Known concentration and volume of an analyte

MCQ32: Which of these is a method of finding the equivalence point?

Answer: All of the options

MCQ33: When performing acid-base titration, one should first?

Answer: Rinse the burette twice with acid solution

MCQ34: The equation NaOH + HCl â†'NaCl + H2O is a _____? Answer: Neutralization reaction

MCQ35: The following are advantages of acid base titration except?

Answer: Less accuracy and precision