	1. Phenolphthalein color in basic medium is a *
	Pink
	Orange
	O Yellow
	Colourless
!	

2. Methyl orange is *
Pink in acidic medium, yellow in basic medium
Yellow in acidic medium, pink in basic medium
Colourless in acidic medium, pink in basic medium
Pink in acidic medium, colourless in basic medium.
3. 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
4. When pH is below 8.5 the indicator is colourless. *
○ EBT
Methyl orange
Phenolphthalein
O K2Cr04

5. Hardness of water is conventionally expressed in terms of equivalent amount of*
O H2CO3
MgCO3
● CaCO3
Na2CO3
6. Which of the following is not a unit of hardness? *
O Parts per million
Degree centigrade
O Degree clarke
O Degree French
7. Temporary hardness of water is caused due to the presence of dissolved *
calcium hydrogen carbonates only
magnesium hydrogen carbonates only
Sulphates and chlorides of calcium or magnesium
o calcium hydrogen carbonates and magnesium hydrogen carbonates

8. When sodium hydroxide is added to HCI, the H+ ions are replaced by *
slow moving Na+ ions
fast moving Na+ ions
slow moving OH- ions
fast moving OH- ions
9. Which among the following reagents is NOT required in conductometric titration of strong acid Vs strong base *
O HCI
○ NaOH
distilled water
10. In order to get accurate values in titration of HCL Vs NaOH, the NaOH is added in increments of *
2ml near and beyond the end point
1 ml near and beyond the end point
0.2 ml near and beyond the end point
O.5ml near and beyond the end point

11. In the pilot titration of NaOH Vs HCl by condcutometry, the base is added in increments of *
O.1ml
O.2ml
● 1ml
O 2ml
12. Which indicator is used in potentiometric titration? *
Methyl orange
O Potassium Chromate
Eriochrome Black T (EBT)
No indicator is used.
13. Estimation of Fe(II) ions by potentiometry istitration. *
Redox
O Acid-base
Precipitation
Complexometric

14. 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? *
O FAS
Phenolphthalein
il. H2SO4
dil. HCl
15. In the experiment, "Estimation of Fe(II) ions by potentiometry", K2Cr2O7 acts as *
Reducing agent
Oxidizing agent
Indicator
Catalyst
16. Which of the following represents the equivalence point in the graph of EMF vs volume of titrant? *
Point at the highest EMF
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

17. All of the following statements are correct regarding potentiometric titration except *
They are suitable for colored or turbid solutions
The EMF of the cell is zero at the equivalence point
The results obtained are accurate
Acid base titration can also be carried out by potentiometry
18. What is the working principle of conductometry? *
measurement of potential.
measurement of conductivity of solution.
measurement of emf
measurements of pH
19. Conductivity cell is made up of *
Two silver rods
Two parallel sheets of platinum
Glass membrane of Ag/AgCl
Sb-Sb203

20. In conductometric titration, after both the acids are consumed, there is a steep increase in conductivity due to *
increase in total volume of solution
increase in temperature
increase in OH- ions
increase in H+ ions
21. 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
22. Which of the following is the formula for pH calculation? *
O log10[H+]
• -log10[H+]
O log2[H+]
O -log2[H+]

23. A buffer solution is used with pH measuring instruments to *
protect the equipment
standardize the equipment
Clean the electrodes
plantinize the reference electrode
24. The Staudinger – Mark-Houwink equation is *
η i =K (M)a
$I = \eta / p$
○ E = mc2
O E = η u
25. Which type of reaction occurs in the following reaction AgNO3 + NaCl $\rightarrow$ AgCl + NaNO3? *
O Displacement reaction
Single replacement
O Decomposition
Double displacement reaction

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