

	calculate the normality of this solution. [Na=23, Cl=35.5]	
c)	State all the statements of 1 st law of thermodynamics.	04
Q-5	Attempt all questions	(14)
a)	Write any three uses of adsorption.	02
b)	Explain and derive Langmuir adsorption isotherm equation.	07
c)	Give a short note on Freundlich adsorption isotherm.	05
Q-6	Attempt all questions	(14)
a)	Explain all thermodynamic processes.	07
b)	Explain the buffer action of an acidic buffer.	05
c)	Define the following terms:	02
	i) Ph of solution	
	ii) Degree of hydrolysis	
Q-7	Attempt all questions	(14)
a)	How to prepare 1000 ml standard solution borax?	05
b)	Calculate molarity of 1 liter's solution containing 50gm of NaOH.	04
c)	Derive Henderson equation to calculate the pH of an acidic buffer solution.	05
Q-8	Attempt all questions	(14)
a)	Write the difference between the part per million and part per thousand.	04
b)	Discuss mechanism of acid and basic buffer solution	07
c)	Write a note on electron affinity.	03

