

Faculty of Science
Subject: Chemistry
Semester –III
QUESTION BANK

Time : 3hours

Max. Marks: 50

- I. Carry out any one experiment allotted from the following: (40marks)**
1. Estimate the amount of Washing soda (Na_2CO_3) present in the given solution.
You are provided with;
 - a. A pure sample of Washing soda (Na_2CO_3)
 - b. An approximate 0.1M solution of HCl.
 2. Estimate the amount of Baking soda (NaHCO_3) present in the given solution.
You are provided with;
 - a. A pure sample of Baking soda (NaHCO_3)
 - b. An approximate 0.1M solution of HCl.
 3. Estimate the amount of Carbonate and Bicarbonate present in the given Mixture.
You are provided with;
 - a. A pure sample of Washing soda (Na_2CO_3)
 - b. An approximate 0.1M solution of HCl.
 4. Estimate the amount of ferrous ion present in the given solution (dichrometrically).
You are provided with a pure sample of $\text{K}_2\text{Cr}_2\text{O}_7$ solid.
 5. Estimate the amount of ferrous ion present in the given solution.
You are provided with;
 - a. A pure sample of Oxalic acid.
 - b. An approximate 0.02M solution of KMnO_4 .
 6. Estimate the amount of Cu^{+2} ion present in the given solution iodometrically.
You are provided with;
 - a. A pure sample of solid $\text{K}_2\text{Cr}_2\text{O}_7$.
 - b. An approximate 0.1M solution of hypo (sodium thiosulphate).
 7. Estimate the amount of $\text{K}_2\text{Cr}_2\text{O}_7$ present in the given solution.
You are provided with;
 - a. A pure sample of solid $\text{K}_2\text{Cr}_2\text{O}_7$.
 - b. An approximate 0.1M solution of hypo (sodium thiosulphate).
 8. Estimate the alkali content present in the given antacid volumetrically.
You are provided with an approximate 0.1M HCl.
- II. Record and Class work (5marks)**
- III. Viva-Voice (5marks)**

Scheme of Evaluation

I.	1.Principal and Procedure with necessary equations	-	10marks
	2. Experimental readings with proper tabulation	-	20marks
	3. Calculations	-	5marks
	4. Results	-	5marks
II.	Record and Class work	-	5marks
IV.	Viva-Voice	-	5marks