	XI Chemistry Worksheet	
Time: 30 min	Ch#1 : Some Basic Concepts of Chemistry -01	Full Marks: 20
Instructions: 1. All questions are compulsory. 2. Please give the explanation for the answer where applicable.		
Q1 - What is the mass	s of 3 gram atoms of calcium?	
		(1 Mark)
Q2 -Calculate the mas	ss of $CaCO_3$ which is required to react with 25 ml of 0.75 M HCl.	
		(5 Marks)
03 - During preparati	on of ammonia by Haber's process 30 L of H2 and 30 L of N2 are	e mixed. The vield
÷ · ·	the composition of gaseous mixtures.	,
		(3 Marks)
Q4 -Potassium bromide (KBr) contains 32.9% potassium by mass. If 6.40 g of Br_2 is made to react with 3.60 g of potassium, find the actual mass of potassium which reacts with bromine.		
		(2 Marks)
Q5 - One atom of an e	element weighs 1.8 x 10 $^{-22}$ g . What is the atomic mass of elem	nent?
		(1 Mark)
Q6 -Chlorophyll conta 4.00g of chlorophyll is	iins 2.7% of Magnesium by mass.The number of magnesium ato s	ms present in
		(3 Marks)
Q7 - How much water decinormal?	r is required to dilute 10 ml of 10 N hydrochloric acid to make it e	exactly
		(2 Marks)
Q8 - Find the molarity	y of solution prepared by dissolving 4g of NaOH in 3L of solution.	
		(2 Marks)
Q9 - How many molec	cules are present in 1 kg mole?	

(1 Mark)