Cosmo School

Class-10
Chemistry
Revision with board questions
Chapter-6
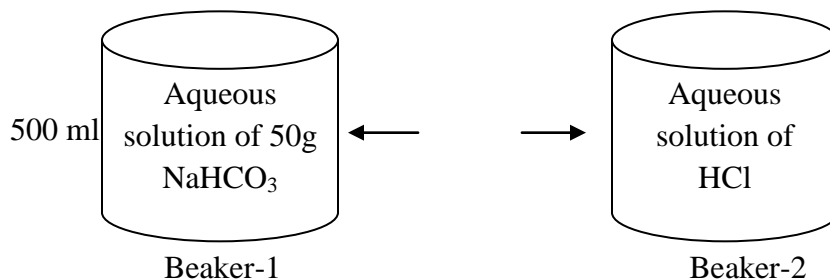**Date-13.08.2020**

All Board 2018 | 1)

Na_2CO_3 26.5g
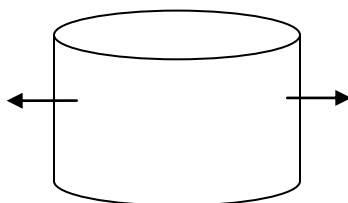
a) What is melting point?
b) Sulphur has variable valency. Explain.
c) Determine the molarity of the solution of the stem.
d) If 25g HCl is added in the solution of the stem, which compound will finish first-calculate.

Dinajpur Board 2019 | 2)

500 ml | Aqueous solution of 50g $NaHCO_3$ ← → Aqueous solution of HCl

Beaker-1   Beaker-2

a) What is combustion reaction?
b) Why does Sulphur show variable valency? Explain.
c) Find out the concentration of solution kept in beaker-1.
d) Analyze the nature of aqueous solution of gas produce from the reaction of reactant kept in beaker-1 and beaker-2.
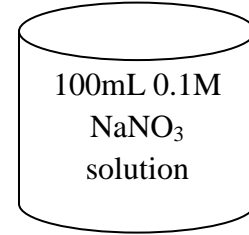
3)

100mL 0.1M Na_2CO_3 solution	100mL 0.1M Na_2SO_4 solution	100mL 0.1M $NaNO_3$ solution
(i)	(ii)	(iii)
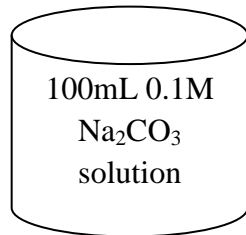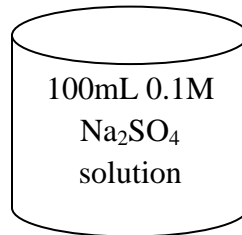
a) What is diffusion?
b) Why the melting point of K is less than Na? Explain.
c) What will be the concentration of the salt of the solution after adding more 100mL water in (i) beaker? Calculate it.
d) The amount of solute of (ii) and (iii) of the stem are different – Justify this statement mathematically.

4)

Na_2CO_3 2.5g, 150 cm^3	1mole HCl	Product
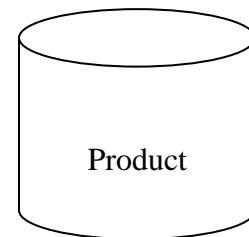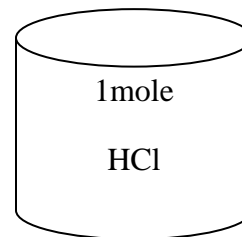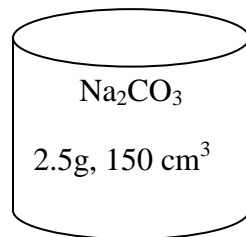
a) What is Stoichiometry?
b) What are the differences between molecular formula and empirical formula?
c) Calculate the molar concentration of Na_2CO_3.
d) Identify limiting reactant of given reaction & calculate number of carbon dioxide that formed in given reaction.

5) 4.4g CO_2 and 5g CaO is mixed to produce 10g $CaCO_3$. The expected amount of product is not found through the reaction.
a) What is chemical equation?
b) Explain the molar volume of CO_2.
c) Determine how many moles of CO_2 were used in the reaction?
d) Give logical explanation of the less amount of expected product found in the reaction in the stem.