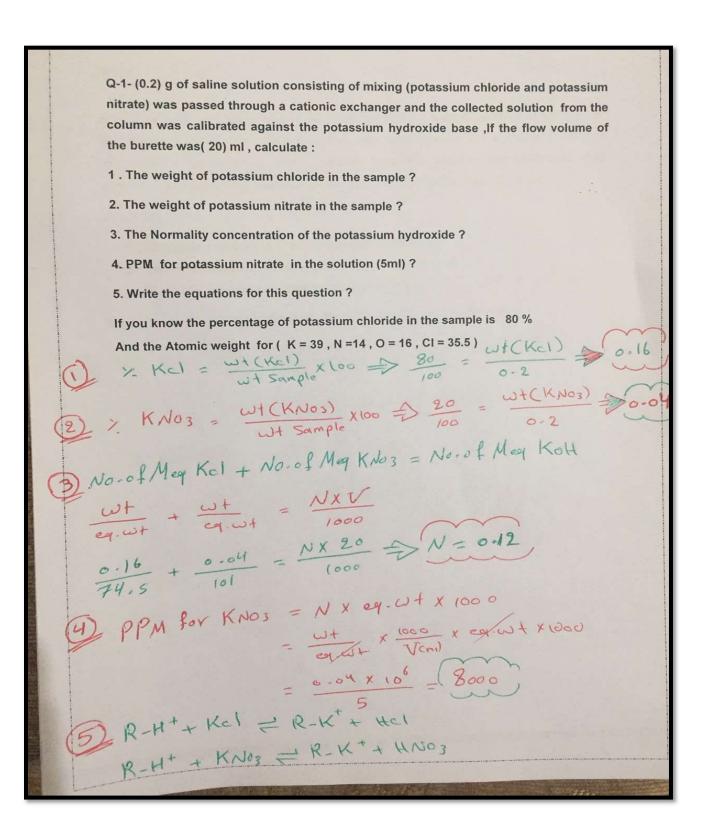
Examples with its solution



Q-1- A sample of sodium bromide weighing (0.1) g was dissolved in (50) ml of the distilled water, The saline solution was then passed on a cationic column (H⁺_Form), Then solution was collected from the column and calibrated with sodium hydroxide, If the volume of the sodium hydroxide was (50) ml,

Calculate:

- 1- The resin capacity if the resin weight is (0.5) g
- 2- The concentration of the sodium hydroxide in ppm.
- 3- Write the equation for this question $\neq R-H^++N\alpha Br \neq R-N\alpha^++HBr$

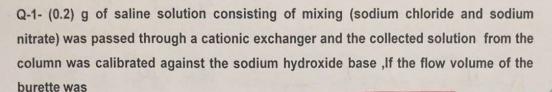
If you know the atomic weight of Na = 23, O = 16, H = 1, Br = 80

DT. C = No. of Meg of (H+) -> 150 1/1 Ushlick No. of Meg H+ = No. of Meg of NaBr = 0-1 x 1000 = 0.97 This No. of Meg H T.c = 0.97 = (1.94) No. of Meg of H' = No. of Meg NaoH No. of Meg of Nai3v = No. of Meg NaoH 0.97 = N X 50

PPM = N X eq. w + x 1000

= 0.019 x 40 x 1000

= 776



(20) ml, calculate:

- eq-wt (Nacl/= 23+35-5 1. The weight of sodium chloride in the sample?
- 2. The weight of sodium nitrate in the sample? 1 eq. wt NaNo3 = 23+14+3x16
- 3. The Normality concentration of the sodium hydroxide?
- 4. PPM for sodium nitrate in the solution (5ml)?
- 5. Write the equations for this question?

If you know the percentage of sodium chloride in the sample is 80 %

And the Atomic weight for (K = 39, N = 14, O = 16, CI = 35.5)

4) PPM for NaNo3 = N x eq. w + x 1000

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Q-1- (0.5) g of the potassium chloride solution was transferred to the cationic exchanger (H+ _Form),if The volume of the come down solution from the cationic exchanger was (10)ml ,which was calibrated with the sodium hydroxide, The volum of the sodium hydroxide was (12) ml,

Calculate:

- 1- The concentration of sodium hydroxide in ppm
- 2- The pH of the acid that come down from lon exchange column
- 3- Write the equation for this question $RH^+ + KcI = RK^+ + HcI$

If you know the atomic weight for
$$K = 39$$
, $CI = 35.5$, $Na = 23$, $O = 16$, $H = 1$

No. of M eq $Kc1 = No.$ of M eq $NaoH$

$$\frac{\omega +}{eq.\omega +} \times \frac{1000}{V} \times V = N \times V$$

$$\frac{0.5}{74.5} = \frac{N \times 12}{1000} = \frac{N}{V} \times 1000 = 0.55 \times 40 \times 1000$$

$$\frac{0.55}{74.5} \times 1000 = 0.55 \times 40 \times 1000$$

$$\frac{0.55}{74.5} \times 40 \times 1000$$

$$\frac{0.55}{$$

Q-1- Answer the following questions:

Q-2- Sort the ions according to the speed of replacement:

$$93R-H^{+} + A1^{+3} = (R-)3-A1^{+3}+3H^{+}$$

$$92R-H^{+} + Ca^{+2} = (R-)2 - Ca^{+2} + 2H^{+}$$